United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date	2014-September-26
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Tier 3 Update (Release 15.0)															
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	<u>Required</u>	Multiplicity	Basic Data Type	<u>Data Type</u> <u>Description</u>	<u>Min</u> Length	<u>Max</u> Length	Pattern	<u>Total</u> <u>Digits</u>	Fractional Digits	<u>Min</u> <u>Value</u>	Max Value
		1	TestVehicleInformationSub												
VI-0.5	Process Code	Select the desired process code for the current	mission/ TestVehicleInformationDeta	i InformationProcessCode	1	1 per Test Vehicle	۵(1)	Enumeration	1	1					
VI-0.3			13	InformationFrocessCode	1	Configuration	7(1)	Linumeration	1	1					
VI-1	Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is TestVehicleInformationSub- mission/	i EPAManufacturerCode	1	1 per Test Vehicle Configuration 1 per Test	A(3)	Fixed String	3	3	[A-Z0-9]{3}				
		A unique alphanumeric identifier assigned by the	TestVehicleInformationDeta	ji Mahialalda stifiastias Taut		Vehicle	A (20)	Christe	1	20					
VI-2		manufacturer to each test vehicle.	IS	VehicleIdentification l ext	1	Configuration	A(20)	String	1	20					
VI-3	Vehicle Configuration Number	A system-generated number that is assigned to each new unique test vehicle configuration. A mfr code, vehicle id, test vehicle configuration number can be used for any test group, evap/refueling family, or model year- not just the values entered into field #s VI-5,VI-6,and VI-7.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is	i VehicleConfigurationNumbe r	0	1 per Test Vehicle Configuration	N(2)	Integer						0	99
VI-4	Manufacturer Vehicle Configuration Number	This optional field may be used by manufacturers to track manufacturers' internal designations for configurations. EPA doesn't use this field.	mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails VehicleDescriptionDetails	i / ManufacturerVehicleConfigu rationNumber	0	1 per Test Vehicle Configuration	N(2)	Integer						0	99
VI-5	Original Test Group Name	The actual test group for this test vehicle configuration.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleOnfigurationDetails VehicleDescriptionDetails	i / TestGroupName	1	1 per Test Vehicle Configuration	A(12)	Fixed string	12	12	[A-HJ-NPR- TV-Y1-9]{1} [A-Z0-9] {4,11}([\\.] [A-Z0-9] {1,6})?				
VI-6	Original Evaporative/Refueling Family Name	The evaporative/refueling family for this test vehicle configuration. Not applicable for diesel vehicles.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails VehicleDescriptionDetails TestVehicleInformationSub	i / EvaporativeRefuelingFamily Name	0	1 per Test Vehicle Configuration	A(12)	Fixed String	12	12	[A-HJ-NPR- TV-Y1-9]{1} [A-Z0-9]{4} [0-9]{4}[A- Z0-9]{3}				
VI-6.5	Leak Family Identifier	Enter a unique 3-character string to identify a specific Leak Family within an Evaporative Family	mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails VehicleDescriptionDetails TestVehicleInformationSub	i / LeakFamilyIdentifier	0	1 per Evaporative Family	A(3)	Fixed String	3	3	3 [A-Z0-9]{3}				
VI-6.6	Leak Family Name	The Leak Family Name is the Verify system- generated Evaporative Family Name concatenated with the Leak Family Identifier (separated by a '-' (dash))	mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails VehicleDescriptionDetails	i / LeakFamilyName	0	1 per Leak Family Identifier	A(16)	Fixed String	16	16	ò				
VI-7	Original Test Vehicle Model Year	The model year for this test vehicle configuration.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails VehicleDescriptionDetails	i / ModelYear	1	1 per Test Vehicle Configuration	N(4)	Year type (1970- 2100)	4	4				1970	2100

			mission/ TestVehicleInformationDeta	i		1 per Test								
VI-8	Represented test vehicle make	The represented test vehicle make (aka division name) for this test vehicle configuration.	VehicleConfigurationDetails VehicleDescriptionDetails	ActualTestVehicleMakeText	1	Vehicle Configuration	A(20)	Strina	1	20		1		
		The represented test vehicle model (aka carline	TestVehicleInformationSub mission/ TestVehicleInformationDeta ls/ VehicleConfigurationDetails	i /		1 per Test Vehicle								
VI-9	Represented test vehicle model	name) for this test vehicle configuration.	VehicleDescriptionDetails	ActualTestVehicleModelText	1	Configuration	A(50)	String	1	50	<u> </u>	 	\mid	
VI-10.5	Drive Source	Enter the applicable value for the drive source for this test vehicle configuration. Select 'E' for fuel cell electric vehicle.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails DriveSourceDetails	i / DriveSourceIdentifier	1	1n per Test Vehicle Configuration	A(1)	Enumeration						
VI-10.6	Hybrid Indicator	Verify assigned based on values selected for Drive Source (VI-10.5)	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ EPAGeneratedTestVehicleI etails	i D HybridVehicleIndicator	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI-11 1	Evel(c)	Enter all applicable fuels for this test vehicle	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails DriveSourceDetails	i / Evalldantifier	1	1n per Drive Source per Test Vehicle Configuration	A(3)	Fourmeration						
VI-11.1			TestVehicleInformationSub	Fuendentiner	1	Configuration	A(3)	Enumeration				 	<u>├</u> ──┤	-
VI-11.2	Multiple Fuel Storage- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels stored separately or together for this test vehicle configuration?	TestVehicleInformationDeta ls/ VehicleConfigurationDetails TestVehicleInformationSub	i MultipleFuelStorageMethodI dentifier	0	1 per Test Vehicle Configuration	A(8)	Enumeration						
VI-11.3	Multiple Fuel Combustion- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels combusted separately or together for this test vehicle configuration?	mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails TestVehicleInformationSub	i MultipleFuelCombustionMet hodIdentifier	0	1 per Test Vehicle Configuration	A(8)	Enumeration						
VI-11.4	Fuel Cell Indicator	Is this test vehicle configuration equipped with a Fuel Cell?	mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails TestVehicleInformationStructure	i FuelCellIndicator	0	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI-11.5	Rechargeable Energy Storage System Indicator	m Is this test vehicle equipped with a rechargeable energy storage system?	mission/ TestVehicleInformationDetails/ VehicleConfigurationDetails TestVehicleInformationSub	i RechargeableEnergyStorag eSystemIndicator	0	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI-11.6	Rechargeable Energy Storage System	Enter the applicable type of energy storage \mathbf{m} device for this test group.	mission/ TestVehicleInformationDeta ls/ VehicleConfigurationDetails	i RechargeableEnergyStorag eDeviceIdentifier	0	1 per Test Vehicle Configuration	A(2)	Enumeration						
VI-11.7	Rechargeable Energy Storage System, if Other	Enter a description of the energy storage device for this test group if "other" selected.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails	i RechargeableEnergyStorag eDeviceOtherText	0	1 per Test Vehicle Configuration	A(30)	String	1	30				

				Verify Light-Duty Data Requireme	ents								Once	Transportation
		Select "Yes" if this test vehicle configuration is equipped with an electric motor that is capable of being charged off-board the vehicle, otherwise	TestVehicleInformationSub mission/ TestVehicleInformationDetai Is/	ffBoardChargeCapabilityIn		1 per Test Vehicle								
VI-1	11.8 Off-board Charge Capable Indicator	select "No".	VehicleConfigurationDetails did	cator	0	Configuration	A(1)	Enumeration						
VI	-13 Drive Mode While Testing	Enter the applicable test drive code for the way this test vehicle configuration was/is to be tested.	TestVehicleInformationSub mission/ TestVehicleInformationDetai Is/ YehicleConfigurationDetais Te	estDriveCode	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI	.14 Shift indicator light usage	Enter the applicable shift indicator light usage code. One usage code per test vehicle configuration	mission/ TestVehicleInformationDetai Is/ VehicleConfigurationDetails_nti	hiftIndicatorLightUsageIde	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI	Sint indicator light usage	coniiguration.		inei	1	Configuration	A(1)	Linumeration						<u> </u>
		Enter the age of the emission control system components (in thousands of miles) or enter "4 = No aged components" if this test vehicle	TestVehicleInformationSub mission/ TestVehicleInformationDetai Is/	gedComponentUsageIdent		1 per Test Vehicle		-						
VI	-15 Aged emission component usage	configuration does not have aged components.	VenicleConfigurationDetails Iffe	er	1	Configuration	A(3)	Enumeration						
			mission/ TestVehicleInformationDetai Is/ VehicleConfigurationDetails/			1 per Test Vehicle		Desired						
VI	-16 Odometer correction initial	Enter the applicable initial odometer correction.	OdometerCorrectionDetails Co	orrectionInitialValue	1	Configuration	N(7,1)	Decimal			/	1	0.0	9999999.9
VI	-17 Odometer correction factor	Enter the multiplicative odometer correction factor.	mission/ TestVehicleInformationDetail Is/ VehicleConfigurationDetails/ OdometerCorrectionDetails Cc TestVehicleInformationSub	orrectionFactorValue	1	1 per Test Vehicle Configuration	N(5,4)	Decimal			5	4	0.0	9.9999
VI	-18 Odometer correction sign	Enter the odometer correction sign- plus or minus.	mission/ TestVehicleInformationDetai Is/ VehicleConfigurationDetails/ OdometerCorrectionDetails Co TestVehicleInformationStub	orrectionSignIdentifier	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI	-19 Odometer Correction units code	Enter the applicable units for the odometer correction factor- miles or kilometers.	TestVehicleInformationDetails/ VehicleConfigurationDetails/ OdometerCorrectionDetails TestVehicleInformationSub	orrectionUnitsCode	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI	-20 Engine Code	Enter the applicable engine code assigned by the manufacturer for this test vehicle configuration.	mission/ TestVehicleInformationDetai Is/ VehicleConfigurationDetails Er TestVehicleInformationSub	ngineCodeText	1	1 per Test Vehicle Configuration	A(14)	String	1	14				
VI	-21 Rated horsepower	Enter the applicable rated horsepower for this tes vehicle configuration. Reference SAE J2723 and SAE J1349.	mission/ t TestVehicleInformationDetai Is/ Er VehicleConfigurationDetails Er TestVehicleInformationSub	ngineRatedHorsePowerVal	1	1 per Test Vehicle Configuration	N(4)	Integer					1	9999
VI	-22 Displacement	Enter the applicable engine displacement in liters for this test vehicle configuration. In Liters.	mission/ TestVehicleInformationDetai Is/ VehicleConfigurationDetails Err TestVehicleInformationSub	ngineDisplacementValue	1	1 per Test Vehicle Configuration	N(5,3)	Decimal			5	3	0.001	99.999
VI	-23 Air Aspiration Method	Enter the applicable air aspiration method for this test vehicle configuration.	mission/ TestVehicleInformationDetail Is/ VehicleConfigurationDetails/ Air AirAspirationDetails r TestVehicleInformationSub	rAspirationMethodIdentifie	1	1 per Test Vehicle Configuration	A(2)	Enumeration						
	-24 Air Aspiration Method if Other	Enter a description of the air aspiration method if "other" is selected for Air Aspiration Method.	TestVehicleInformationDetai ls/ VehicleConfigurationDetails/ Air AirAspirationDetails xt	rAspirationMethodOtherTe	0	1 per Test Vehicle Configuration	A(30)	String	1	30				

				mission/ TestVehicleInformationDeta Is/	1		1 per Test								
	VI-25	Number of Air Aspiration Devices	If not naturally aspirated, enter the number of Air Aspiration Devices. Default is "0".	VehicleConfigurationDetails AirAspirationDetails	AirAspirationDeviceCount	0	Vehicle Configuration	N(2)	Integer					0	99
				mission/ TestVehicleInformationDeta	ai l		1 per Teet								
-	VI-26	Air Aspiration Device Configuration	Enter the applicable air aspiration device configuration for this test vehicle configuration.	VehicleConfigurationDetails AirAspirationDetails TestVehicleInformationSub	AirAspirationConfigurationId entifier	0	Vehicle Configuration	A(2)	Enumeration					<u> </u>	
	VI 27	Charge Air Cooler Tune	Enter the applicable charge air cooler (also known as inter-cooler) type for this test vehicle configuration	mission/ TestVehicleInformationDeta Is/		0	1 per Test Vehicle	A(1)	Enumoration						
ł	VI-27	Charge Air Cooler Type		TestVehicleInformationSub		0	Conliguration	A(1)	Enumeration					+	+
	VI-28	Emission Control Device Comments	Enter any additional comments about the emission control devices installed on this test vehicle configuration.	TestVehicleInformationDeta ls/ VehicleConfigurationDetails	i EmissionsControlDeviceCo mmentsText	0	1 per Test Vehicle Configuration	A(1000)	String	1	1000				
-	VI-29	Curb weight	Enter the curb weight in pounds for this test vehicle configuration. Curb weight is defined as the actual or mfr's estimated weight of the vehicle in operational status with all standard equipment and weight of fuel at nominal tank capacity and the weight of optional equipment computed in accordance with CFR86.082-24.	TestVehicleInformationSub mission/ TestVehicleInformationDeta ls/ VehicleConfigurationDetails VehicleSpecificationsDetails	i 5/ 5 CurbWeightValue	1	1 per Test Vehicle Configuration	N(5)	Integer					0	14000
	VI-30	ETW	Enter the ETW, equivalent test weight, in pounds for this test vehicle configuration. ETW is defined as the weight within an inertia weight class which is used in the dynamometer testing of a vehicle and which is based on its loaded vehicle weight on adjusted loaded vehicle weight in accordance with the provisions of CFR86.1803-01.	TestVehicleInformationSub mission/ TestVehicleInformationDeta rls/ VehicleConfigurationDetailS VehicleSpecificationsDetailS	ui ;/ s EquivalentTestWeightValue	1	1 per Test Vehicle Configuration	N(5)	Enumeration					0	14000
	VI-31	ALVW	Enter the adjusted, loaded vehicle weight in pounds for this test vehicle configuration. ALVW is defined as the average of the vehicle curb weight and gross vehicle weight rating in accordance with the provisions of CFR86.1803- 01.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ EPAGeneratedTestVehicleI etails	i D	0	1 per Test Vehicle Configuration	N(5)	Integer				AdjustedL adedVehic WeightVa e	o le lu 0	14000
			The loaded vehicle weight in pounds will be calculated by Verify for this test vehicle configuration. LVW is defined as the vehicle curb	TestVehicleInformationDeta ls/ EPAGeneratedTestVehicleI	ii D		1 per Test Vehicle						LoadedVe cleWeight	hi V	
	VI-32	LVW	weight plus 300 pounds.	etails TestVehicleInformationSub		0	Configuration	N(5)	Integer				alue	0	14000
	11.00		Enter the gross vehicle weight in pounds for this test vehicle configuration. Gross vehicle weight is defined as the value specified by the mfr as the maximum design loaded weight of a single	mission/ TestVehicleInformationDetails/ VehicleConfigurationDetails	i / GrossVehicleWeightRatingV		1 per Test Vehicle								14000
ł	VI-33	Gross vehicle weight rating (GVWR)		TestVehicleInformationSub		0	Configuration	N(5)	Integer		<u> </u>				14000
-	VI-34	N/V Ratio	Enter the applicable N/V ratio for this test vehicle configuration.	Imission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails VehicleSpecificationsDetails TestVehicleInformationSub mission/	i 5/ s NVRatioValue	1	1 per Test Vehicle Configuration	N(4,1)	Decimal			,	4 1	0.0	999.9
	VI-35	Axle Ratio	Enter the axle ratio for this test vehicle configuration.	TestVehicleInformationDeta s/ VehicleConfigurationDetails VehicleSpecificationsDetails	i ;/ s AxleRatioValue	1	1 per Test Vehicle Configuration	N(3,2)	Decimal				3 2	0.00	9.99

VI-36	Transmission Type	Enter the transmission type for this test vehicle configuration.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails TransmissionSpecifications Details	i / LightDutyTransmissionTypeI dentifier	1	1 per Test Vehicle Configuration	A(3)	Enumeration						
VI-37	Transmission Type, if "Other"	Enter a description of the transmission type if "Other" is selected.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails. TransmissionSpecifications Details	i / LightDutyTransmissionType OtherText	0	1 per Test Vehicle Configuration	A(30)	String	1	30				
VI-38	Transmission Lockup	Is the transmission on this test vehicle configuration equipped with lockup?	TestVehicleInformationSub mission/ TestVehicleInformationDeta ls/ VehicleConfigurationDetails. TransmissionSpecifications Details	i / TransmissionLockupIndicato r	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI-39	Creeper Gear	Is the transmission on this test vehicle configuration equipped with a creeper gear?	TestVehicleInformationSub mission/ TestVehicleInformationDeta ls/ VehicleConfigurationDetails. TransmissionSpecifications Details	i / TransmissionCreeperGearIn dicator	1	1 per Test Vehicle Configuration	A(1)	Enumeration						
VI-40	Number of Transmission Gears	Enter the number of transmission gears on this test vehicle configuration. If this vehicle is equipped with a "transmission type" of "CVT", enter "1" for the number of gears.	TestVehicleInformationSub mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails. TransmissionSpecifications Details	i / TransmissionGearCount	1	1 per Test Vehicle Configuration	N(2)	Integer					1	99
VI-40.5	Test Procedure Dynamometer Coefficients Category	Select all applicable test procedure dynamomete coefficients categories for which target and set coefficients must be specified for this test vehicle (FTP/Hwy, Cold CO, and/or US06). Note- Targe and set coefficients must be entered for each selected test procedure.	r TestVehicleInformationSub mission/ TestVehicleInformationDeta tls/ VehicleConfigurationDetails TargetSetCoefficienDetails	i / TestProcedureDynamomete rCoefficientsCategory	1	1n per Test Vehicle Configuration	A(7)	Enumeration						
VI-41	Target Coefficient A	Enter the target A-term coefficient from test track force vs. velocity equation for this test vehicle configuration. (lbf)	TestVehicleInformationSub mission/ TestVehicleInformationDeta ls/ VehicleConfigurationDetails TargetSetCoefficientDetails	i / TargetCoefficientAValue	1	1# of selected test procedures per Test Vehicle Configuration	N(6,3)	Decimal			6	3	-999.999	999.99
VI-42	Target Coefficient B	Enter the target B-term coefficient from test track force vs. velocity equation for this test vehicle configuration. (lbf/mph)	mission/ TestVehicleInformationDetails Is/ VehicleConfigurationDetails TargetSetCoefficientDetails TestVehicleInformationSub	i / TargetCoefficientBValue	1	1# of selected test procedures per Test Vehicle Configuration	N(6,5)	Decimal			6	5	-9.99999	9.9999
VI-43	Target Coefficient C	Enter the target C-term coefficient from test track force vs. velocity equation for this test vehicle configuration. (lbf/mbh**2)	mission/ TestVehicleInformationDeta Is/ VehicleConfigurationDetails. TargetSetCoefficientDetails	i / TargetCoefficientCValue	1	1# of selected test procedures per Test Vehicle Configuration	N(7.6)	Decimal			7	6	-9.999999	9,9999

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			TestVehicleInformationSub											1
			mission/											1
			ls/			1 per Test								1
	EPA-Calculated Total Road Load	Verify calculated total road load horsepower	EPAGeneratedTestVehicleD	TotalRoadLoadHorsepower		Vehicle								1
VI-43.5	Horsepower (for C-H-E Coefficients)	(TRLHP50) based on C-H-E target coefficients	etails	Value	0	Configuration	N(3,1)	Decimal			3	1	0	99.9
			mission/											1
			TestVehicleInformationDetai	i		1# of selected								1
		EPA derived or manufacturer supplied set A-term	ls/			test procedures								1
\/I_44	Set Coefficient A	coefficient from dynamometer force vs. velocity	VehicleConfigurationDetails/	SetCoefficient (Value	1	per Test Vehicle	N(6 2)	Decimal			6	2	-000 000	000 000
VI-44	Set Coefficient A		TestVehicleInformationSub	SetcoenicientAvalue	⊥	Configuration	11(0,3)	Decimal			0	5	-333.333	333.333
			mission/											1
		EPA derived or manufacturer supplied set B-term	l estVehicleInformationDetai	1		1# of selected								1
		equation for this test vehicle configuration.	VehicleConfigurationDetails/	,		per Test Vehicle								1
VI-45	Set Coefficient B	(lbf/mph)	TargetSetCoefficientDetails	SetCoefficientBValue	1	Configuration	N(6,5)	Decimal			6	5	-9.99999	9.99999
			TestVehicleInformationSub											1
		EPA derived or manufacturer supplied set C-term	TestVehicleInformationDetai			1# of selected								1
		coefficient from dynamometer force vs. velocity	ls/			test procedures								1
		equation for this test vehicle configuration.	VehicleConfigurationDetails/			per Test Vehicle					_			1
VI-46	Set Coefficient C	(lbf/mph**2)	TargetSetCoefficientDetails TestVehicleInformationSub	SetCoefficientCValue	1	Configuration	N(7,6)	Decimal			7	6	-9.999999	9.999999
			mission/											1
			TestVehicleInformationDetai	Î		1 per Test								1
VI-47	Test vehicle comments	vehicle configuration.	VehicleConfigurationDetails	ManufacturerCommentText	0	Configuration	A(1000)	String	1	1000				1

Allowed Values	Industry	Process	Notes/Questions	Originator	Collection Point	Collection Type	Applicable Business Rules
I = New dataset C = Correction of existing Verify dataset	Light-Duty	Certification Test Data		Manufacturer	Front End	XML	LD-CTD-VI-BR030 LD-CTD-VI-BR031
		Certification					
	Light-Duty	Test Data		Verify	Front end	XML	BR031
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR002 LD-CTD-VI-BR031
					Back and if	Accigned if	
			If VI-3 NEW then done in DB and do not validate. If	Verify if New.	New	New.	LD-CTD-VI-BR002
		Certification	CORRECTION/UPDATE then Mfr Code, Vehicle ID, and	otherwise	Front end if	otherwise	LD-CTD-VI-BR029
	Light-Duty	Test Data	Vehicle Configuration Number must exist in DB.	Manufacturer	not New	XML	LD-CTD-VI-BR031
		Cortification					
	Light-Duty	Test Data		Manufacturer	Front end	XML	
							LD-CTD-VI-BR005
							LD-CTD-VI-BR007
	Light-Duty	Certification		Manufacturer	Eront and	YMI	
	Light-Duty	Tesi Dala		Manufacturer	FIOILEIIU	AIVIL	ED-CTD-VI-BR000
							LD-CTD-VI-BR004
		Certification					LD-CTD-VI-BR006
	Light-Duty	Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR009
	Light Duty	Certification	Letters in the Leak Family Identifier must be uppercase.	Manufacturer	Front End	XML	
	Links Dut	Contification	Create a Leak Family Name when Leak Family Identifier	Vorifi	Dook End	Accierat	
	Light Duty	Ceruncation		veniy	васк-епо	Assigned	
							LD-CTD-VI-BR003
		Certification					LD-CTD-VI-BR004
	Light-Duty	Test Data		Manufacturer	Front end	XML	

		Certification	This change must be made on Verify front end and back		E		
	Light-Duty	Test Data	end web screens	Manufacturer	Front end	XML	
		Certification	This change must be made on Verify front end and back				
	Light-Duty	Test Data	end web screens	Manufacturer	Front end	XML	
			This field is totally new in VI (however it already exists in the Test Group dataset but the enumeration value of "H- Hybrid" is being deleted in all datasets).				
			For model years <2012, this field should be mapped from				
C = Combustion Engine E = Electric Motor	Light Duty	Certification	other existing fields which is why it is a required field.	Manufacturer	Eront End	XMI	
	Light Duty	Tesi Dala	NEW BE Verify Assigned Rule: If Drive Source (VI-10.5) is equal to 'Combustion Engine' and 'Electric Motor' then	Manufacturer		AIVIL	
			Hybrid Indicator (VI-10.6) equals "Yes", otherwise it				
			For model years <2012,				
N - No		Certification	which is why it is a required field.				
Y - Yes	Light Duty	Test Data		Verify	Back End	Assigned	LD-CTD-VI-BE001
G - Gasoline							
D - Diesel							LD-CTD-VI-BR032
E - Ethanol							LD-CTD-VI-BR034
CNG - Compressed Natural Gas LNG - Liquified Natural Gas			For model years <2012, this field should be mapped from Fuel1 and Fuel2 fields which is why it is a required field.				
LPG - Liquid Petroleum Gas							
H - Hydrogen EL - Electricity		Certification	BR - The selected value for Fuel(s) (VI-11.1) is not a valid				LD-CTD-VI-IBR008
HYD - Hydraulic	Light-Duty	Test Data	value.	Manufacturer	Front end	XML	VI-BR11
S - Fuels Stored Separately		Certification			E		LD-CTD-VI-BR035a
I - Fuels Stored Together	Light-Duty	Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR035b
S- Fuels Combusted Separately	Light-Duty	Certification		Manufacturer	Front end	XMI	
	Light Duty	Test Data		Manufacturer	TIONCENU	XIVIL	
N - NO Y - Yes	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR037
N - No		Certification					
Y - Yes	Light-Duty	Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR038
в = вашегу(s) C = Capacitor							
OT = Other	Light Duty	Certification		Manufacturer	Front End	XML	LD-CTD-VI-BR039
	Light Duty	Certification		Manufacturer	Front End	XML	LD-CTD-VI-BR040

N - No Y - Yes	Light-Duty	Certification	Manufacturer	Front end	XMI	LD-CTD-VI-BR041
	Light Duty		Manufacturer	Tione chu	XIVIE	
4 = 4-wheel Drive						
R = 2-wheel drive, rear		Cortification				
A = All wheel drive	Light-Duty	Test Data	Manufacturer	Front end	XML	
1 - Not equipped						
3 - Equipped, shifted by SIL		Certification				
5 - Equipped, shifted by survey schedule.	Light-Duty	Test Data	Manufacturer	Front end	XML	
4 = No aged components, 4k emission or fuel economy data vehicle was used 50 = 50k aged components used on test vehicle 100 = 100k 120 = 120k		Certification				
150 = 150k	Light-Duty	Test Data	Manufacturer	Front end	XML	
		Certification				
	Light-Duty	Test Data	Manufacturer	Front end	XML	
		Cortification				
	Light-Duty	Test Data	 Manufacturer	Front end	XML	
$^{\prime + \prime}$ = System Miles= (Test odometer reading *Correction factor) + Initial system miles,						
	Light Duty	Certification	Manufacturor	Front and	YMI	
	Light-Duty	Tesi Dala	Wanuacturer	FIGHLEHU	XIVIL	
M =Miles		Certification				
K = Kilometers	Light-Duty	Test Data	Manufacturer	Front end	XML	
		Cartification				
	Light-Duty	Test Data	Manufacturer	Front end	XML	
	Light Dur	Certification	Monuferture	Front and	YN4	
	Light-Duty	Test Data	wanuracturer	Front end	XIVIL	
		Cortification				
	Light-Duty	Test Data	Manufacturer	Front end	XML	
NA=Naturally aspirated						
SC=Supercharged						
I S= I urbocharged+Supercharged OT=Other	Light-Duty	Certification Test Data	Manufacturer	Front end	XML	
	Light-Duty	Certification	Manufacturer	Front end	ХМІ	LD-CTD-VI-BR013

	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR014 LD-CTD-VI-BR015 LD-CTD-VI-BR017 LD-CTD-VI-BR018
N=Single P=Parallel S=Series PS=Both Parallel and Series	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR016
A=Air L=Liquid N=N/A	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR025
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR019 LD-CTD-VI-BR020
1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875, 4000, 4250, 4500, 4750, 5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9000, 9500,10000, 10500, 11000, 11500, 12000, 12500, 13000, 13500, 14000	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR019
	Light-Duty	Certification Test Data	This field should be system generated. ALVW is defined as the average of the vehicle curb weight and the gross vehicle weight.	Verify	Back end	Assigned	
	Light-Duty	Certification Test Data	This field should be system generated. LVW is defined as the vehicle curb weight + 300 pounds.	Verify	Back end	Assigned	
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR020
	Light Duty	Certification		Manufacturor	Front and	YMI	
	Light-Duty	Certification		Manutacturer	⊢ront end	XML	
	Light-Duty	Test Data		Manufacturer	Front end	XML	

A = Automatic AM = Automated Manual M = Manual SA = Semi-Automatic CVT= Continuously Variable SCV=Selectable Continuously Variable (e.g. CVT with paddles) AMS= Automated Manual- Selectable (e.g. Automated Manual with paddles) OT = Other	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR023 LD-FE-GL-BR093 LD-CTD-VI-BR021
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR021
Y=Yes N=No	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-VI-BR022
Y=Yes N=No	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	
	Light-Duty	Certification		Manufacturer	Front end	XMI	
(Need to change the enumeration list in the schema.) C-H-E = City/Highway/Evap Cold-CO = Cold CO US06 = US06	Light-Duty	Certification Test Data	Need to add a column to the test procedure table that will be used to cross reference each test procedure to the 3 test procedure dyno coefficients categories. This will be used for EPA confirmatory testing to select the correct target and set coefficients depending on which test procedure is going to be conducted by the lab.	Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR032 LD-CFT-SI-BR037
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR032 LD-CFT-SI-BR033 LD-CFT-SI-BR037
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR032 LD-CFT-SI-BR033 LD-CFT-SI-BR037
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR033 LD-CFT-SI-BR034 LD-CFT-SI-BR037

Light Duty	Certification Test Data	Verify will use the following equations for City/Highway/Evap Coefficients: Total Road Load Horsepower = (A + 50xB + 2500xC) / 7.5 Where: A=Target Coefficient A (VI-41), B=Target Coefficient B (VI-42), C=Target Coefficient C (VI-43) ASTM Rounded to 1 decimal place	Verify	Back End		LD-CTD-VI-BR042
Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR032 LD-CFT-SI-BR033 LD-CFT-SI-BR037
Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR032 LD-CFT-SI-BR033 LD-CFT-SI-BR037
Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CFT-SI-BR030 LD-CFT-SI-BR031 LD-CFT-SI-BR033 LD-CFT-SI-BR034 LD-CFT-SI-BR037
Light-Duty	Certification Test Data		Manufacturer	Front end	XML	

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date 2014-September-26

Tier 3 Update (Release 15.0)																	_
							Basic Data	Data Type	Min	Max		Total	Fractional	Min	Max		
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Туре	Description	Length	Length	Pattern	Digits	Digits	Value	Value	Allowed Values	Industry
Fuel Properties		Not required for test fuel type equal to	diesel, hydrogen or electric.														
FP-0.5	Process Code	Select the desired process code for the current submission.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is	InformationProcessC ode	1		A(1)	Enumeration	1	1						N = New dataset C = Correction of existing Verify dataset	Light-Duty
FP-1	Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. For mfr tests- this will be derived from user's CDX user account. Otherwise, it will come from LOD Test Report data.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is	EPAManufacturerCo de	1		A(3)	Fixed string	3	3	[A-Z0-9]{3}						Light-Duty
FP-2	Fuel batch ID	Enter the assigned fuel batch ID for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is	FuelBatchIdentifier	1		A(6)	String	1	6							Light-Duty
FP-3	Fuel calibration number	Enter the fuel calibration number for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is	FuelCalibrationNumb er	1		N(4)	Integer						1	9999		Light-Duty
FP-4	Test Fuel Type	Select the applicable test fuel type for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelIdentificationDetails	TestFuelTypeldentifi er	1		N(2)	Enumeration								1 = INDOLENE 30 6 = EPA UNLEADED GASOLINE 7 = INDUSTRIAL UNLEADED 100 OCTANE 9 = COUSTRIAL UNLEADED 100 OCTANE 9 = CERT DIESEL 300 PPM SULFUR 10 = NATURAL GAS 11 = FEDERAL CERT DIESEL 7-15 PPM SULFUR 12 = SPECIAL UNLEADED 10 NON 22 = SPECIAL UNLEADED 10 RON 23 = COLD COE BEGULAR (CERT) 24 = COLD COE BEGULAR (CERT) 25 = COLD COE PREMIUM (TIER 2) 27 = COLD COE PREMIUM (TIER 2) 29 = COLD COE IO PREMIUM (TIER 2) 29 = COLD COE IO PREMIUM (TIER 2) 29 = COLD COE IO PREMIUM (TIER 2) 21 = CARD COE IO PREMIUM (TIER 2) 23 = COLD COE IO PREMIUM (TIER 2) 24 = COLD COE IO PREMIUM (TIER 2) 25 = COLD COE IO PREMIUM (TIER 2) 26 = COLD COE IO PREMIUM (TIER 2) 27 = COLD COE IO PREMIUM (TIER 2) 28 = COLD COE IO PREMIUM (TIER 2) 29 = COLD COE IO PREMIUM (TIER 2) 21 = METHANOL (CERT MID) 32 = METHANOL (CERT MID) 33 = METHANOL (CERT MID) 34 = METHANOL (CERT MID) 35 = EI (10% ETHANOL 30% EPA UNLEADED GASOLINE) 35 = EI (10% ETHANOL 30% CAL PHASE II GASOLINE) 34 = EBS (85% ETHANOL 30% CAL PHASE II GASOLINE) 35 = CARB LEY3 EID PREMIUM GASOLINE (MERSOLINE) 45 = ETO (70% ETHANOL 30% CAL PHASE II GASOLINE) 45 = CARB LEY3 EID PREMIUM GASOLINE (MERSOLINE) 45 = TETA 3 EID PR	Light-Duty
FP-5	Fuel batch calibration effective date	Enter the calibration effective date for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelIdentificationDetails	BatchCalibrationEffe ctiveDate	1		D(8)	Date			[1-2]{1}[0-9] {3}[0-1]{1} [0-9]{1}[0-3] {1}[0-9]{1}						Light-Duty
FP-6	Fuel batch calibration ineffective date	Enter the calibration ineffective date for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelIdentificationDetails	BatchCalibrationInEff	f O		D(8)	Date			[1-2]{1}[0-9] {3}[0-1]{1} [0-9]{1}[0-3] {1}[0-9]{1}						Light-Dut

				Ve	rify Light-Du	ty Data Requireme	ents							Office of Transportati	ion and Air Qua
FP-7	Fuel batch calibration date	Enter the calibration date for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Ba Is/FuelIdentificationDetails e	tchCalibrationDat	1	D)(8)	Date	[1-2]{1}[0-9] {3}[0-1]{1} [0-9]{1}[0-3] {1}[0-9]{1}						July 20
FP-8	Carbon weight fraction	Enter the carbon weight fraction NMHC fo this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails ure	actionNMHCMeas e	0	N(4,3)	Decimal		4	3	0.7	0.9	0.700-0.900 Natural Gas - CWF _{NMHC}	Light-Duty
FP-9	Carbon weight fraction HC	Enter the carbon weight fraction HC for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails Fra	actionHCMeasure	0	N(*	4,3)	Decimal		4	3	0.7	0.9	0.700-0.900 Natural Gas - CWF _{HC/NG}	Light-Duty
FP-10	Exhaust carbon weight fraction	Enter the exhaust carbon weight fraction for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails sur	haustFractionMea re	0	N(-	4,3)	Decimal		4	3	0.8 or 0.0	1.0	0.800-1.000 (Methanol) Methanol - CWF _{exHC} 0.800-1.000 (Methanol blend) Methanol blend - CWF _{exHC} 0.800-1.000 (California Phase II) California Phase II - CWF _{exHC} 0.000-1.000 - California Phase II - CWF _{exHC}	Light-Duty
FP-11	Fuel methanol volume fraction	Enter the fuel methanol volume fraction fo this fuel batch.	FuelPropertiesSubmission/ r FuelPropertiesInformationDetai Me Is/FuelSpecificationsDetails cti	ethanolVolumeFra onMeasure	0	N(4,3)	Decimal		4	3	0.0	1.0	0.000-1.000 (Methanol) Methanol 0.000-1.000 (Methanol blend) Methanol blend.	Light-Duty
FP-12	Fuel density	Enter the fuel density for this fuel batch. Units are grams/cu. Ft.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationsDetails Fu	elDensityMeasure	0	N(5,3)	Decimal		5	3	1.0	40.0	Units are grams/cu. Ft. for gaseous fuels 1.000-40.00 (Natural Gas) Natural Gas - D _{NG} Natural Gas (Dual Fue) - D _{NG} , D _{ait}	Light-Duty
FP-13	Fuel specific gravity	Enter the fuel specific gravity for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Sp Is/FuelSpecificationsDetails urc	ecificGravityMeas	0	N	4,3)	Decimal		4	3	Min of set	Max of set	0.719-0.770 (Gasoline) Gasoline - SG California Phase II - Sg _{blend} 0.844-0.882 (Diesel) Diesel - NOT REQUIRED 0.790-0.800 (Methanol) Methanol - SG 0.740-0.790 (Methanol blend) Methanol blend - SG 0.723 -0.750 (California Phase II) California Phase II - Sg _{blend}	Light-Duty

				V	erify Light-Du	ty Data Require	ements						Office of Trans	portatioh and Air Quali
FP-14	Fuel net heating value	Enter the fuel net heating value for this fuel batch in BTU/pound.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationsDetails	NetHeatingValue	0		N(6)	Integer				Min of set	Units are BTU/Pound 018284-019000 (Gasoline) Gasoline - NHV Gasoline (dual fuel) - NHV, NHV _{pet} , NHV _g 018300-019000 (Diesel) Diesel (dual fuel) - NOT REQUIRED Diesel (dual fuel) - NOT REQUIRED Methanol (single fuel) - NOT REQUIRED Methanol blend (dual fuel) - NHV _{at} 008000-009000 (Methanol blend) Methanol blend (single fuel) - NOT REQUIRED Methanol blend (single fuel) - NOT REQUIRED Matural Gas (single fuel) - NOT REQUIRED Natural Gas (dual fuel) - NHV _{at} 017000-019000 (California Phase II) California Phase II - NHV _{tuend}	Light-Duty
FP-15	Fuel blend carbon weight fraction	Enter the fuel blend carbon weight fractior for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationsDetails/ CarbonWeightFractionDetails	BlendFractionMeasu	0		N(4,3)	Decimal		4	3	Min of set	0.835-0886 (Gasoline) Gasoline - CWF 0.864-0873 (Diesel) Diesel - NOT REQUIRED 0.3745-0.880 (Methanol blend) Methanol blend - CWF 0.839-0844 (California Phase II) California Phase II - CWF _{blend} 0.650-0770 (Natural gas) Natural gas - CWF _{NG} 0.835-0886 (Gasoline) Gasoline - CWF California Phase II - CWF _{blend}	Light-Duty
FP-16	Weight fraction CO2	Enter the CO2 weight fraction for this fuel batch.	FuelPropertiesSubmission/ FuelPropertiesInformationDetai Is/FuelSpecificationSDetails/ CarbonWeightFractionDetails	FractionCO2Measur e	0		N(4,3)	Decimal		4	3	0.0	0.000-0.300 0.3 Natural Gas - WF _{NG}	Light-Duty

Process	Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
Certification Test Data		Manufacturer	Front End	XML	LD-CTD-FP-BR021 LD-ФтФТРF-BR02023
Certification Test Data		Verify	Front end	XML	LD-CTD-FP-BR023
Certification Test Data		Manufacturer/	Front end	XML	LD-CTD-FP-BR023
Certification		Manufacturer/			
- CSi Dala		200	- TONE CHU	AWL	20 010 17 01023
	New BR: If Process Code (FP- 0.5) equals 'N' (New) then Test Fuel Type (FP-4) cannot equal '24' (Cold CO Regular (CERT))				
Certification Test Data	or '25' (Cold CO Premium (CERT)).	Manufacturer/ LOD	Front end	XML	LD-CTD-FP-BR024
O					
Certification Test Data	YYYYMMDD	Manufacturer/ LOD	Front end	XML	
Certification Test Data		Manufacturer/ LOD	Front end	XML	

Certification Test Data	Manufacturer/ LOD	Front end	XML	
Certification Test Data	Manufacturer/ LOD	Front end	XML	
Cortification	Manufacturor/			
Test Data	LOD	Front end	XML	
Certification	Manufacturer/			
Test Data	LOD	Front end	XML	
Certification Test Data	Manufacturer/ LOD	Front end	XML	
Test Data	Manufacturer/ LOD	Front end	XML	
Certification	Manufacturer			
Test Data	LOD	Front end	XML	

Certification Test Data	Manufacturer/ LOD	Front end	XML	
Certification Test Data	Manufacturer/ LOD	Front end	XML	
Certification Test Data	Manufacturer/ LOD	Front end	XML	1

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date 2014-September-26

Tier 3 Update (Release 15.0))														
							Basic Data	Data Type	Min	Мах		Total	Fractional		
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	<u>Multiplicity</u>	Туре	Description	Length	Length	Pattern	Digits	Digits	<u>Min Value</u>	<u>Max Value</u>
	1														
		Select the desired process	TactlaformationCubmission												
TI-0.5	Process Code	submission.	/TestInformationDetails	InformationProcessCode	1	1 per test	A(1)	Enumeration	1	1					
						-									
		A unique number assigned by Verify to identify this set													
		of test info and results.													
		Character 1 IS Model Year, Characters 2 - 4													
		Manufacturer code,													
		test number. For the													
		sequential test number, if it													
		test any other number is a	TestInformationSubmission												
TI-1	Test Number	manufacturer test.	/TestInformationDetails	TestNumberIdentifier	0	1 per test	A(12)	Fixed String							
		For EPA confirmatory tests	-												
		by LOD to identify this set													
		of test info and results.													
TI-2	LOD Test Number	for manufacturer tests.	/TestInformationSubmission	LODTestNumberText	0	1 per test	A(20)	String	1	20					
						•									
		The 3-character													
		assigned by EPA to each													
		manufacturer. For mfr													
		from user's CDX user													
		account. Otherwise, it will	TestInformationSubmission								[4-70-9]				
TI-3	Manufacturer code	Report data.	/TestInformationDetails	EPAManufacturerCode	1	1 per test	A(3)	Fixed string	3	3	[A-20-3] {3}				
		Enter the unique													
		alphanumeric identifier for													
		previously established in	TestInformationSubmission												
TI-4	Vehicle ID	Test Vehicle Information.	/TestInformationDetails	VehicleIdentificationText	1	1 per test	A(20)	String	1	20					

ſ						Ver	rify Light-Duty Data	Requirements						Office of Transportation and Air Quality
														July 2014
	TI-5	Vehicle Configuration Number	Enter the vehicle configuration number for the tested vehicle previously established in Test Vehicle Information.	TestInformationSubmissior /TestInformationDetails	VehicleConfigurationNum ber	1	1 per test	N(2)	Integer			0	99	
	TI-6	Test date	Enter the date on which th test was conducted.	TestInformationSubmissior le /TestInformationDetails/ TestDataDetails	TestDate	1	1 per test	D(8)	Date	[1-2] 9]{3] {1}] {1}] {1}] {1}] {1}] {1}] {1}]	(1}[0- [0-1] 0-9] 0-3] 0-9] 1}			
	TI-7	Verify Test Lab ID	Enter the applicable manufacturer test lab site code that was previously established as part of Manufacturer Information.	TestInformationSubmissior /TestInformationDetails/ TestDataDetails	TestLaboratorySiteCode	0	1 per test	N(2)	Integer			1	99	_
	TI-8	Test Procedure	Enter the applicable test procedure for the test currently being submitted.	TestInformationSubmissior /TestInformationDetails/ TestDataDetails	1 TestProcedureIdentifier	1	1 per test	N(2)	Enumeration					

					Ver	fy Light-Duty Data	Requirements								Office of Transportation and Air Quality
															July 2014
			TestInformationSubmission												
		Enter the applicable test	/TestInformationDetails/												
TI-9	Test Fuel Type	fuel type for this test.	TestDataDetails	TestFuelTypeIdentifier	1	1 per test	N(2)	Enumeration							-
		Enter the edemeter reading	TestInformationSubmission												
TI-10	Test Start Odometer reading	at the beginning of the test.	TestDataDetails	OdometerStartValue	1	1 per test	N(7,1)	Decimal			7	1	0.0	999,999.9	
		Enter the units of the	TestInformationSubmission												
TI 11	Odamatanita	odometer reading for this	/TestInformationDetails/		1	1		F actorian							
11-11	Odometer units		TesiDalaDelaiis	CorrectionUnitsCode	1	1 per test	A(1)	Enumeration							
		Pequired for evaporative													
		tests. Enter the test number	r												
		of the corresponding FTP	ToctInformationSubmission												
	Exhaust - Evap test number	test must be entered prior	/TestInformationDetails/	ExhaustEvaporativeTestL											
TI-13	link	to the evap test.	TestDataDetails	inkldentifier	0	1 per test	A(15)	String	12 1	12 -15					
			TestInformationSubmission												
TI-13 5	Analytically-Derived FE / CREF Indicator	Is this test analytically derived?	/ l estInformationDetails/ TestDataDetails	AnalyticallyDerivedIndicat	1	1 ner test	A(1)	Enumeration							
11 2010			1 ootbullab oldalo	0.	-		, (1)	Lindifioration							
		If the test being submitted													
		is an analytically-derived													
		fuel economy/CREE test,													
		enter the Verity Test Number upon which the													
	Analytically-Derived FE /	analytically-derived test is	TestInformationSubmission	1											
TI-13 6	CREE Base Verify Test Number	based.	/TestInformationDetails/ TestDataDetails	AnalyticallyDerivedTestId	0	1 per test	A(12)	Fixed String	12	12					
11 2010			1 OOLD ddab Oldalo				, (12)	1 mou ouring							
		Enter the total road load													
		(TRLHP50) for the													
	Analytically Devised FF (analytically derived test	To all aformation Culturianian												
	CREE - Total Road Load	analytical vehicle not	/TestInformationSubmission	AnalvticallvDerivedRoadL											
TI-13.7	Horsepower	actually tested)	TestDataDetails	oadHorsepowerMeasure	0	1 per Test	N(3,1)	Decimal			3	1	0	99.9	
		Enter the equivalent test													
		weight, in pounds for the													
	Analytically Derived FE /	analytically derived test	TestInformationSubmission												
TI-13.8	CREE - ETW	vehicle not actually tested)	TestDataDetails	lentTestWeightMeasure	0	1 per Test	N(5)	Enumeration					0	14000	
								-			-				

					Vei	r i fy Light-Duty Data I	Requirements								
TI-13.9	Analytically-Derived FE / CREE - N/V Ratio	Enter the applicable N/V ratio for the analytically derived test vehicle configuration. (The analytical vehicle not actually tested)	TestInformationSubmission /TestInformationDetails/ TestDataDetails	AnalyticallyDerivedNVRati oMeasure	0	1 per Test	N(4,1)	Decimal				4	1	0.0	999.9
			TestInformationSubmission												
TI-14	4WD Test Dyno	Was this test conducted on a 4WD dynomometer?	/TestInformationDetails/ TestDataDetails	meterIndicator	1	1 per test	A(1)	Enumeration							
		This field is only filled in for tests conducted at EPA's test lab- not for mfr tests. This information will come from the LOD Test Report	TestInformationSubmission /TestInformationDetails/	EPADynamometerNumbe											
TI-15	EPA Dyno Number	data.	TestDataDetails	rText	0	1 per test	A(4)	String	1	4					
TI-16	Fuel Batch Manufacturer Code	Enter the manufacturer code for the owner of the fuel batch used for this test	TestInformationSubmission /TestInformationDetails/ TestDataDetails/ . FuelBatchPropertiesDetails	FuelBatchManufacturerC	0	1 per test	A(3)	Fixed String	3	3	[A-Z0-9] {3}				
			TestInformationSubmission			·		Ŭ							
TI-17	Fuel batch ID	Enter the applicable fuel batch ID for this test.	/TestInformationDetails/ TestDataDetails/ FuelBatchPropertiesDetails	FuelBatchIdentifier	0	1 per test	A(6)	String	1	6					
		Enter the applicable fuel calibration number for this	TestInformationSubmission /TestInformationDetails/ TestDataDetails/												
TI-18	Fuel calibration number	test.	FuelBatchPropertiesDetails	FuelCalibrationNumber	0	1 per test	N(4)	Integer						1	9999
	Diesel Adjustment Factor	Enter the applicable diesel adjustment factor to be used for calculation of the certification level for this	TestInformationSubmission /TestInformationDetails/	DieselAdjustmentFactorU											
TI-18.5	Usage Indicator	test.	TestDataDetails	sageIndicator	0	1 per test	A(1)	Enumeration							
TI-18.8	Manufacturer Confirmatory Test Indicator	Specify whether this test is a manufacturer confirmatory test required by CAP 2000 regulations.	TestInformationSubmission /TestInformationDetails/ TestDataDetails	ManufacturerConfirmator vTestIndicator	0	1 per test	A(1)	Enumeration							
11 10.0	Original Manufacturer Verify	Enter the original Verify tes	t TestInformationSubmission	y resultation	0		, (1)	Endineration							
TI-18.9	Test Number That Was Confirmed	number that was confirmed by this test.	/TestInformationDetails/ TestDataDetails	OriginalManufacturerConf irmedTestIdentifier	0	1 per test	A(12)	Fixed String	12	12					
71.00		"Yes" is entered any time this test is a retest of a	TestInformationSubmission /TestInformationDetails/					-							
11-22	Retest Indicator	previous test	TestDataDetails	Retestindicator	1	1 per test	A(1)	Enumeration							
TI 22 1	Manufacturer Verify Test	Enter the Verify test number that required this retest.	TestInformationSubmission /TestInformationDetails/	ManufacturerRetestTestN	0	1 por tost	A(12)	Fived String	12	12					
11-22.1	Number mat was Relested		I ESIDAIADEIAIIS		U	rhei riesr		FIXED SUIIIG	12	12					
TI-23	Retest Reason	Enter the reason for conducting this re-test.	TestInformationSubmission /TestInformationDetails/ TestDataDetails	RetestReasonIdentifier	0	1 per test	N(2)	Enumeration							
	State of Charge Delta	Does the state of charge meet EPA's end of test criteria? This is required for Hybrid and Fuel Cell	TestInformationSubmission /TestInformationDetails/	ChargeStateDeltaIndicato											
11-24	indicator	venicies.	restDataDetails	I	U	1 per test	A(1)	Enumeration							

																Office of Transportation and Air Quality
																July 2014
		Enter E10 Measurement														
		Method to be used for Running Loss and 2-Day/3-	_													
		Day Hot Soak + Diurnal														
		3/LEVIII tests). Method	r													
		must agree with all														
		the tested Evaporative	TestInformationSubmission													
TI-24.5	E10 Evaporative Test Measurement Method	Family.	/TestInformationDetails/ TestDataDetails	E10EvaporativeTestMeas urementMethodIdentifier	0	1 per test	A(7)	Enumeration								
	Drive Cycle Speed Tolerance	Select the applicable value	TestInformationSubmission													
TI-24.6	Criteria	Tolerance Criteria.	TestDataDetails	ceCriterialdentifier	1	1 per test	A(8)	Enumeration								
		Was a road speed fan usec	Ŀ													
		for this test? Manufacturers must have	TestInformationSubmission													
T 04.0	Road Speed Fan Usage	prior EPA approval in order	/TestInformationDetails/	RoadSpeedFanUsageIndi				-								
11-24.8	Indicator	to enter Yes.	TestInformationSubmission	cator	1	1 per test	A(1)	Enumeration								
		Enter any additional	/TestInformationDetails/	ManufacturerCommentTe												
PHEV Test Information Only	Test Comments	comments about this test.	JS06)	xt	0	1 per test	A(1000)	String	1	1000						
						1 per test (Test										
		Enter the number of	TestInformationSubmission			Procedure =										
	Number of	UDDS/Highway/US06	/TestInformationDetails/			Depleting UDDS,										
TI-18.1	UDDS/Highway/US06 Bags/Phases Conducted	bags/phases conducted for this test.	 PHEVChargeDepletingTest InformationDetails 	TestBagPhaseCount	0	Highway, US06 only)	N(2)	Integer						1	99	
			TestInformationSubmission	<u> </u>				Ŭ,								
			/TestInformationDetails/			1 Number of										
		Verify-assigned number for	PHEVChargeDepletingTest			UDDS/Highway/ US06 Cycles										
71 40 0	UDDS/Highway/US06	each UDDS/Highway/US06	B PHEVChargeDepletingBag	T. ID. DI N		Conducted										
11-18.2	Bag/Phase Number	Bag/Phase for this test.	PhaseDetails	restBagPhaseNumber	0		N(2)	Integer							99	
						1 per tect (Test										
						Procedure =										
		Enter the actual measured	estInformationSubmission /TestInformationDetails/			Charge Depleting UDDS.										
TI 10.0	Booharga Event Valtage	input AC voltage to the	PHEVChargeDepletingTest	RechargeEventVoltageM		Highway, US06	N(4 1)	Docimal				4	1		000.0	
11-10.3	Recharge Event voltage	charger for this test.	InformationDetails	leasuie	U U	uniy)	IN(4,1)	Decimal		1	I	4		U	999.9	

						Verify Light-Duty Data F	equirements						
TI-18.4	Recharge Event Energy (kiloWatt-hours)	Enter the actual measured energy (kiloWatt-hours) input to the charger to recharge the vehicle batter for this test.	TestInformationSubmission /TestInformationDetails/ yPHEVChargeDepletingTest InformationDetails	RechargeEventEnergyMe asure	0	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(7,4)	Decimal		7	4	0	999.9999
TI-18.6.1	Charge Depleting Range (Calculated miles)	Enter the calculated charge depleting driving range (in miles) as required by 40 CFR XXX.	TestInformationSubmission /TestInformationDetails/ PHEVChargeDepletingTest InformationDetails	CalculatedChargeDepleti onRangeMeasure	0	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(6,3)	Decimal		6	3	0	999.999
TI-18.6	Charge Depleting Range (Actual miles)	Enter the actual measured charge depleting driving range (in miles) as required by 40 CFR XXX.	TestInformationSubmission /TestInformationDetails/ IPHEVChargeDepletingTest InformationDetails	ChargeDepletionRangeM easure	0	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(6,3)	Decimal		6	3	0	999.999
TI-18.7	Equivalent All Electric Range (miles)	Enter the equivalent all electric range as required by California ARB's ZEV procedure.	TestInformationSubmission /TestInformationDetails/ PHEVChargeDepletingTest InformationDetails	EquivalentElectricRange Measure	0	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(6,3)	Decimal		6	3	0	999.999
		Enter all applicable test result names (and unrounded test results) for this test. Note the list of test result names includes possible fuel economy test results also. 'CREE' or 'OPT-CREE' values are required in the Charge Depleting Bag / Phase #1 section. Otherwise, they are optional. The three Drive Trace field: are required when Model Year is greater than 2014 and when Test Category equals FTP, US06, SC03, HWY, or CD for both charge sustaining and charge depleting tests. Enter the weighted value of all bags for FTP tests and	s f TestInformationSubmission			1Total # of Test Result Names in Enumeration List per UDDS Cycle Number (if Test Procedure equals Charge Depleting UDDS, Highway, US06) else 1Total # of Test							
TI-19	Test Result/Emission Name	enter only the bag 2 value for US06 tests.	/TestInformationDetails/ TestDataDetails/ EmissionTestDetails	TestResultIdentifier	1	Result/Emission Names in Enumeration List	A(16)	Enumeration					

		Ver	fy Light-Duty Data	Requirements				Office of Transportation and Air Quality
								July 2014
TL-10	Test Result/Emission Name-							
1115								
	Test Result/Emission Name-							
TI-19	Continued							

						Verify Light-Duty Data R	equirements							Office of Transportation and Air Quality
TI-20	Unrounded Test Result	Enter the unrounded test result for each emission name for this test. Exhaus emission results and running losses must be in units of grams per mile. Evaporative emission results must be in units of grams per test. ORVR must be in units of grams per gallon of fuel dispensed.	t TestInformationSubmission /TestInformationDetails/ TestDataDetails/ EmissionTestDetails	UnroundedResultValue	1	1Total # of Test Result Names in Enumeration List per UDDS Cycle Number (if Test Procedure equals Charge Depleting UDDS, Highway, US06) else 1Total # of Test Result/Emission Names in Enumeration List	N(11.7)	Decimal		11	7	-99.99	9999,9999999	July 2014
		Enter the applicable unit of measure for the entered fuel economy value(s). CNG vehicles should select fuel economy units of	t TestInformationSubmission /TestInformationDetails/	FuelEconomyValueUnitId										
TI-20.5 TI-20.6	Fuel Economy Value Unit Verify-Calculated Fuel Economy Mile Per Gallon Equivalent Value	"MPG". Verify will calculate the mile per gallon equivalent for non-MPG fuel economy values	TestDataDetails TestInformationSubmission /TestInformationDetails/ e EPAGeneratedTestInforma ionDetails/ EPAGeneratedEmissionTe stDetails	entifier t FuelEconomyMPGEquiva lentValue	0	1 per Test 1 per Test Result/Emission Name	A(8) N(11,7)	Enumeration	3 8	11	7	0	9999.9999999	
	EPA Confirmatory Test E	xhaust Emission Cert Lev	vel Information											
TI-38	Rounded Emission Result	Verify will round the unrounded test results for each EPA Confirmatory Test test number/emission name combination to the same number of digits plus one digit as the corresponding emission standard (that was entered in CT Supplemental Info). Each rounded result will then have the DF applied (that was entered in CT Supplemental Info) to calculate the official certification levels.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedEmissionTe stDetails	t UnroundedResultValue	0	1 for each provided unrounded emission result (via test number) for which a corresponding emission standard is provided on the CT Supplemental Information.	N(11,7)	Decimal		11	7	0	9999.9999999	
	Unrounded Unadjusted	Verify-calculated carbon- related exhaust emissions value (or optional carbon- related exhaust emissions value) without deterioratior	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedCarbonRela	t UnroundedUnadjusted7V		1 per Test Result/Emission	, · ,							
TI 19.1	CREE	factors applied.	edExhaustEmissionDetails	alue	0	Name	N(11,7)	Decimal		 11	7	0	9999.9999999	

					Ve	erify Light-Duty Data	Requirements						Office of Transportation and Air Quality
TI 19.2	Rounded Unadjusted CREE	Verify-calculated carbon- related exhaust emissions value (or optional carbon- related exhaust emissions value) without deterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedCarbonRela edExhaustEmissionDetails	t tRoundedUnadjustedValu e	0	1 per Test Result/Emission Name	N(4,0)	Decimal	4	0	0	9999	July 201-
Ti 19.3	Unrounded Adjusted CREE	Verify-calculated carbon- related exhaust emissions value (or optional carbon- related exhaust emissions value) without deterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedCarbonRela edExhaustEmissionDetails	t tUnroundedAdjusted7Valu e	0	1 per Test Result/Emission Name	N(11,7)	Decimal	11	7	0	9999.9999999	
TI 19.4	Rounded Adjusted CREE	Verify-calculated carbon- related exhaust emissions value (or optional carbon- related exhaust emissions value) without deterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedCarbonRela edExhaustEmissionDetails	t t RoundedAdjustedValue	0	1 per Test Result/Emission Name	N(4,0)	Decimal	4	0	0	9999	
ТІ 19.5	Unrounded Unadjusted OPT CREE	Verify-calculated optional carbon-related exhaust emissions value without - deterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedOptionalCar bonRelatedExhaustEmissio nDetails	t UnroundedUnadjusted7V alue	0	1 per Test Result/Emission Name	N(11,7)	Decimal	11	7	0	9999.9999999	
ТІ 19.6	Rounded Unadjusted OPT- CREE	Verify-calculated optional carbon-related exhaust emissions value without deterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedOptionalCar bonRelatedExhaustEmissio nDetails	t RoundedUnadjustedValu e	0	1 per Test Result/Emission Name	N(4.0)	Decimal	4	0	0	9999	
TI 19.7	Unrounded Adjusted OPT- CREE	Verify-calculated optional carbon-related exhaust emissions value without deterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedOptionalCar bonRelatedExhaustEmissio nDetails	t UnroundedAdjusted7Valu e	0	1 per Test Result/Emission Name	N(11,7)	Decimal	11	7	0	9999.9999999	
	Rounded Adjusted OPT- CREE	Verify-calculated optional carbon-related exhaust emissions value with outdeterioration factors applied.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedOptionalCar bonRelatedExhaustEmissio nDetails	t RoundedAdjustedValue	0	1 per Test Result/Emission Name	N(4,0)	Decimal	4	0	0	9999	
TI-39	Certification Level	Verify will calculate cert levels for EPA confirmatory tests by applying the DF submitted in the Supplemental Information dataset to each rounded emission result.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInforma ionDetails/ EPAGeneratedExhaustDet ails	t CalculatedCertificationLe velValue	0	1 for each calculated Rounded Emission Result	N(8.4)	Decimal	8	4	0	9999.9999 (note- one additional digit was added to the left of the decimal)	

					V	erify Light-Duty Data	equirements							Office of Transportation and Air Quality
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		For EPA confirmatory tests,												
		Verify will compare the												
		the corresponding standard												
		entered in the CT												
		Supplemental Information												
		Disposition Code to "Pass"	TestInformationSubmission											
		if the Calculated Cert Level	/TestInformationDetails/											
		standard, otherwise it will	ionDetails/			1 for each								
	Certification Disposition	be set to "Fail".	EPAGeneratedExhaustDet	CertificationDispositionCo		calculated Cert								
TI-40	Code	formation	ails	de	0	Level	A(4)	Enumeration						
	Evap Emission Cert Lever m	Inormation							-					
		Verify will round the												
		unrounded test results for												
		each CSI test				1 for each								
		combination to the same				unrounded								
		number of digits as the				emission result								
		corresponding emission standard plus one digit.	TestInformationSubmission			(via test number) for which a								
		Each rounded result will	/TestInformationDetails/			corresponding								
		then have the DF applied to	EPAGeneratedTestInformat			emission standard is								
		certification levels.	EPAGeneratedEvaporative	RoundedEmissionResult		provided on the								
TI-41	Rounded Emission Result		Details TestInformationSubmission	Value	0	CSI.	N(11,7)	Decimal		11	7	0	9999.9999999	
			/TestInformationDetails/											
		Verify will calculate cert	EPAGeneratedTestInformat			1 for each							9999.9999 (noto one additional digit	
		each rounded emission	EPAGeneratedEvaporative	CalculatedCertificationLe		Rounded							was added to the left of	
TI-42	Cert Level	result.	Details	velValue	0	Emission Result	N(8,4)	Decimal		8	4	0	the decimal)	
		Verify will compare the												
		the corresponding standard												
		and will set the Certification												
		if the Calculated Cert Level												
		is less than or equal to the												
		standard, otherwise it will be set to "Fail" A												
		certificate will not be issued	TestInformationSubmission											
		for any CSIs that contain a	/TestInformationDetails/											
		1 001 .	ionDetails/			1 for each								
TI 01	Certification disposition	Verify calculated for EPA	EPAGeneratedEvaporative	CertificationDispositionCo		calculated Cert	A(4)	Enumeration						
11-21	Test Procedure Reference T	able- This will be used to m	Details	ue up/evap family combina	tion) includes	Level	A(4)	ach required test cate	oarv.					
	react roccure reference i	usic. This will be used to fi	mile sure cuen esi (lesi yit	suprevup running combina	abily includes	s quicust one test i	uninger tot e	you required test call	- giyi					

					Ver	ify Light-Duty Data I	equirements					Office of Transportation and Air Quality
		This field will automatically be filled based on the test procedure (in "Test" section) associated with the test number. A valid test number is	TestInformationSubmission /TestInformationDetails/		ver	ny ugin-buty Data i	requirements					July 2014
TI-43	Test Category	required for these test categories.	EPAGeneratedTestInformat ionDetails	TestCategoryIdentifier	1	1 per test procedure	A(6)	Enumeration				
TI-44	Test Fuel Category	This field will automatically be filled based on the Test Fuel Type (TI-9) in "Test" section) associated with the test number. A valid test number is required for these fuel categories.	TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInformat ionDetails	TestFuelCategoryIdentifie	1	1 per test fuel type	A(3)	Enumeration				
			TestInformationSubmission /TestInformationDetails/ EPAGeneratedTestInformat	Test5CycleCategoryIdenti		1 per test						
TI-45	Test 5-Cycle Category		ionDetails	fier	1	procedure	A(5)	Enumeration				

2.65/

Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
- New dataset - Correction of existing Verify dataset	Light-Duty	Certification Test Data		Manufacturer/ LOD	Front End	XML	LD-CTD-TI-BR027 LD-CTD-TI-BR080
	Light-Duty	Certification Test Data		Verify if New, otherwise Manufacturer	Back-end if New Front end if	Assigned if New,	LD-CTD-TI-BR002a LD-CTD-TI-BR002b LD-CTD-TI-BR030 LD-CTD-TI-BR031 LD-CTD-TI-BR036 LD-CTD-TI-BR090
		Certification Test Data			Foort and		
	Light-Duty	Certification Test Data		Verify/LOD	Front end	XML	LD-CTD-TI-BR004 LD-CTD-TI-BR001 LD-CTD-TI-BR003 LD-CTD-TI-BR017 LD-CTD-TI-BR029 LD-CTD-TI-BR066 LD-CTD-TI-BR066
				Manufacturer/			LD-CTD-TI-BR003 LD-CTD-TI-BR066 LD-CTD-TI-BR072 LD-FE-CA-BR166 LD-FE-CA-BR167 LD-FE-CA-BR181 LD-FE-CA-BR182 LD-FE-GL-BR080 LD-FE-GL-BR081 LD-FE-GL-BR083 LD-FE-GL-BR084 LD-FE-GL-BR084 LD-FE-GL-BR084

				Verify Light-	Duty Data Requ	irements	
	Light-Duty	Certification Test Data		Manufacturer/ LOD	Front end	XML	LD-CTD-TI-BR003 LD-CTD-TI-BR066 LD-CTD-TI-BR072 LD-FE-CA-BR166 LD-FE-CA-BR167 LD-FE-CA-BR181 LD-FE-CA-BR182 LD-FE-GL-BR080 LD-FE-GL-BR081 LD-FE-GL-BR083 LD-FE-GL-BR083 LD-FE-GL-BR084 LD-FE-GL-BR090 LD-FE-GL-BR091
	Light-Duty	Certification Test Data	YYYYMMDD	Manufacturer/ LOD	Front end	XML	LD-CTD-TI-BR005 LD-CTD-TI-BR042 LD-CTD-TI-BR061
2 = CVS 75 AND LATER (W/O CAN. LOAD)	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR006
	Light-Duty	Certification Test Data	Test Procedure Codes 80 (5-Cycle City Raw Test Bag Data) and 82 (5-Cycle Hwy Raw Test Bag Data) do not exist in Verify, but they did in CFEIS so they are reserved in the event that we someday migrate CFEIS data into Verify. However, 'if' we do have them in the TEST_PROC table then 80 would have the Test Category of 'FTP' and 82 would be 'HWY'. If they aren't in the TEST_PROC table, then there's no need to give them Test Categories.	Manufacturer/ LOD	Front end	XML	LD-CERT-TG-BR186 LD-CERT-TG-BR187 LD-CFT-DI-BR020 LD-CTD-TI-BR043 LD-CTD-TI-BR066 LD-CTD-TI-BR066 LD-CTD-TI-BR075 LD-CTD-TI-BR075 LD-FE-GL-BR080 LD-FE-GL-BR081 LD-FE-GL-BR083 LD-FE-GL-BR084

6 = EPA UNLEADED GASOLINE				Verify Light-	Duty Data Regu	irements	
T = INDUSTRIAL UNLEADED 100 OCTANE 9 = CUMBER 1 FUEL OIL 9 = CERT DIESEL 300 PPM SULFUR 10 = NATURAL GAS 110 = CARB CERT DIESE 7.15 PPM SULFUR 12 = CARB CERT DIESE 7.15 PPM SULFUR 13 = CARB CERT DIESE 7.15 PPM SULFUR 13 = CARB COR TO ISES 7.15 PPM SULFUR 14 = COLD CO REGULAR (CERT) 25 = COLD CO REGULAR (CERT) 25 = COLD CO REGULAR (CERT) 26 = COLD CO EIO REGULAR (CERT) 28 = COLD CO EIO REGULAR (CERT) 29 = COLD CO EIO REGULAR (CERT) 29 = COLD CO EIO REGULAR (CERT) 29 = COLD CO EIO REGULAR (CASOLINE (TER 3) 29 = COLD CO DI SEL 7.15 PPM SULFUR 21 = METHANOL (CERT MIS) 23 = METHANOL (CERT MIS) 24 = COLD CO DI SEL 7.15 PPM SULFUR 25 = COLD CO DI SEL 7.15 PPM SULFUR 26 = COLD CO DI SEL 7.15 PPM SULFUR 27 = STO (DI SEL 7.15 PPM SULFUR 28 = METHANOL (CERT MIS) 29 = COLD CO DI SEL 7.15 PPM SULFUR 21 = METHANOL (CERT MIS) 24 = METHANOL (SP PA UNLEADED GASOLINE) 25 = E70 (70% ETHANOL 15% EPA UNLEADED GASOLINE) 24 = LPG 25 = E70 (SMS ETHANOL 15% CAL PHASE II GASOLINE)				terny eight			
48 = TIER 3 E10 REGULAR GASOLINE (9 RVP @LOW ALT.) 49 = TIER 3 E10 PREMIUM GASOLINE (9 RVP @LOW ALT.) 50 = HVDROGEN							
58 = TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR ONLY) 59 = TIER 3 E10 PREMIUM GASOLINE (10 RVP-FFV ORVR ONLY) 61 = TIER 3 CEPT CASOLINE			(New) then Test Fuel Type (FP-4) cannot equal	Manufacture			LD-CTD-TI-BR074
01 - HER 2 CERT GASOLINE 62 = ELECTRICITY 71 = E100 (100% ETHANOL)	Light-Duty	Certification Test Data	Premium (CERT)).	LOD	Front end	XML	LD-CTD-11-BR085 LD-CTD-TI-BR086
	Light-Duty	Certification Test Data		Manufacturer/ LOD	Front end	XML	
M - Miles K - Kilometers	Light-Duty	Certification Test Data		Manufacturer/ LOD	Front end	XML	
	Light-Duty	Certification Test Data		Manufacturer/ LOD	Front end	XML	LD-CTD-TI-BR008a LD-CTD-TI-BR008b
N=No Y=Yes	Light Duty	Certification Test Data		Manufacturer	Front end	XML	
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR053 LD-CTD-TI-BR054 LD-CTD-TI-BR055 LD-CTD-TI-BR072 LD-CTD-TI-BR073 LD-CTD-TI-BR074 LD-CTD-TI-BR075
	Light Duty	Certification Test Data		Manufacturer	Front End	XML	LD-CTD-TI-BR056
1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875, 4000, 4250, 4500, 4750, 5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9000, 9500,10000, 10500, 11000, 11500, 12000, 12500, 13000, 13500, 14000	Light-Duty	Certification Test Data	(Same enumeration list as ETW (VI-30) from VI dataset)	Manufacturer	Front end	XML	LD-CTD-TI-BR057 LD-CTD-TI-IB001

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Verify Light-Duty Data Requirements							
					E		
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR058
			New: Need to send this to the lab via the stored				
			and vehicle information after Supplemental Info				
			is submitted and aceepted. It should be				
Y = Yes N = No	Light-Duty	Certification Test Data	appended to the end of the record that gets written to	Manufacturer/	Front end	XMI	
	Light-Duty	Certification Test Data		LOD	FIGHTEHU	XIVIL	
				Manufacturer/			
	Light-Duty	Certification Test Data		LOD	Front end	XML	
	Light Duty	Certification Test Data		Manufacturer/	Front and	YM	LD-CTD-TI-BR009
	Light-Duty	Certification Test Data		LOD	Front enu	XIVIL .	LD-CTD-TI-BR073
				1			
				Manufacturer/			
	Light-Duty	Certification Test Data		LOD	Front end	XML	LD-CTD-TI-BR073
				Manufacturer/			LD-CTD-TI-BR009
	Light-Duty	Certification Test Data		LOD	Front end	XML	LD-CTD-TI-BR073
							LD-CTD-TI-BR028
U = Upward				Manufacturer/	Front and	YMI	LD-CTD-TI-BR064a
D - Downward				LOD	FIGHTEHU	XIVIL	LD-CTD-TI-BR004b
Y = Yes							
N = No	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR059
							LD-CTD-TI-BR060
							LD-CTD-TI-BR061
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR062
				1			
V = Voo				Monufacture			
Y = Yes N = No	Light-Duty	Certification Test Data		Manufacturer/	Front end	XMI	I D-CTD-TI-BR063
	g.n Daty	2 Statedalori i Set Bulu		200			
				1			
				1			
							LD-CTD-TI-BR041
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR042
1 - Failed (F)				1			
2 - Void (V)							
3 - FE (FE)							
4 - Unrepresentative (U)	Light-Duty	Cortification Test Data		Manufacturer/	Front and	YMI	LD-
		Cerunication Test Data		LOD	FIGHT	∧iVIL	
				1			
				1			
				1			
				1			
				1			
Y = Yes				Manufacturer/			
N = No	Light-Duty	Certification Test Data		LOD	Front end	XML	LD-CTD-TI-BR046

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			Request table which is triggered by St				
			submission.				
			New PR				
			New BKS:				
			If the Test Fuel Type (TI-9) equals '46' (CARB				
			LEV3 E10 REGULAR GASOLINE), '47' (CARB LEV3				
			E10 PREMIUM GASOLINE),				
			'48' (TIER 3 E10 REGULAR GASOLINE), OF				
			AND the Test Procedure (TI-8) equals '23' (FED				
			FUEL 2 DAY EVAP (BUTANE)), '27' (CA FUEL 2				
			DAY EVAP (BUTANE LOAD)), '32' (FED FUEL				
			RUNNING LOSS), '34' (FED FUEL 3 DAY				
			LOSS') '38' (CA FUEL 3 DAY EVAP (BUTANE				
			LOAD)), '43' (FED FUEL 2DAY EVAP(HEAT TO				
			LOAD)), '47' (CA FUEL 2 DAY EVAP(HEAT TO				
			LOAD)), '58' (TIER 3 E10 REGULAR GASOLINE (10				
			PREMIUM GASOLINE (10 RVP-FFV ORVR Only)).				
			then E10 Evaporative Test Measurement				
			Method (TI-24.5) is required.				
			If the Submitting Manufacturer Code is not 'LOD'				
			or 'EPA' then E10 Evaporative Test Measurement				
			Method (TI-24.5) cannot equal 'FID-EPA'.				
			If the Submitting Manufacturer Code is 'LOD' or 'EPA' then E10 Evaporative Test Measurement				
			Method (TI-24.5) must either match the E10				
			Evaporative Test Measurement Method (TI-24.5)				
ACTUAL = Actual Total Hydrocarbon Equivalent			for the test specified Test Number (DI-17.5) by				
Measurement (with speciation)			the manufacturer for the corresponding test				LD-CTD-TI-BR087
CALC = Calculated (1.08 x FID Total Hydrocarbons)			Information, or, must equal 'FID-EPA' (Actual FID	Manufacturer/			LD-CTD-TI-BR088
FID-EPA = Actual FID w/o Speciation (EPA Only)	Light Duty	Certification Test Data	w/o Speciation (EPA Only)).	LOD	Front End	XML	LD-CTD-TI-BR089
			****Add this to the LOD STARDATA Test				
PART86 = Used Part 86 (+/- 2 mph, +/- 1 sec)			Request table which is written to upon SI	Manufacturer/			
PART1066 = Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Light Duty	Confirmatory Test	submission.	LOD	Front End	XML	
			****Send this to the LOD STARDATA Test				
Y = Yes			Request table which is triggered by SI	Manufacturer/	E		
N = NO	Light Duty	Certification Test Data	submission.	LOD	Front End	XML	
	Light-Duty	Certification Test Data			Front and	XMI	
	Light Duty	Certification rest Data		LOD	i ione ente	XIVIE	
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR064b
	Light-Duty	Certification Test Data		Verify	Front end	XML	LD-CTD-TI-BR064b
							I D-CTD-TI-BR064a
							LD-CTD-
	Light Durt	Cortification Tant Data		Monuferture	Front and	VA4	II-BRU64b
	LIGHT-DULY	Certification Test Data		wanuacturer	From end	AIVIL .	LD-CID-11-BK005

				Verify Light-	Outy Data Requ	irements	
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR064b
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR064b
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR064b
	Light-Duty	Certification Test Data		Manufacturer	Front end	XML	LD-CTD-TI-BR064b
HC: TOTAL. [Catal Hydrocarbon) HC: TOTAL. [Catal Hydrocarbon Equivalent - Evap Only) HC: TOTAL. [Catab Hydrocarbon Equivalent - Evap Only) HC: Catbon Harow (Table CO2 (Cathon Dioxide) CREE (Carbon-Related Exhaust Emissions) OPT-CREE (Control Related Exhaust Emissions) NOX (Nitrogen Oxides) PM-COMP (SETP Composite Particulate Matter) HMC: [Commanue Hydrocarbon equivalent) MMCG (Normen use Hydrocarbon equivalent) MMCG (Normen use Hydrocarbon equivalent) MMCG (Normen use Hydrocarbon equivalent) MMCG (Normen use Hydrocarbon-Hydrocarbon-Hitrogen Oxides for US06 or SC03) HC: HO: (Commander) Hydrocarbon equivalent) MMCG (Normen use Hydrocarbon-Hydrocarbon-Nitrogen Oxides for US06 or SC03) HC: MM-NOX (SETP Normethane Hydrocarbon-Hitrogen Oxides for US06 or SC03) HC: MM-NOX (CMP (SETP Composite Normethane Hydrocarbon-Nitrogen Oxides) CMOUNT (SETP Normethane Hydrocarbon-Hitrogen Oxides for US06 or SC03) HC: MM-NOX (CMP (SETP Composite Normethane Hydrocarbon-Nitrogen Oxides) CMOUNT (SETP Normethane Hydrocarbon-Hitrogen Oxides) NMCG-NOX - COMP (SETP Composite Normethane Organic Gases Plus Nitrogen Oxides) ETHANDL (C2H5OH- Emano) FE BAG 2 (Bag 1 Lett Economy) FE BAG 2 (Bag 1 Cathon Dioxide) CO2 BAG 3 (Bag 3 Cathon Dioxide) CO2 BAG 3 (Bag 3 Cathon Dioxide) CO2 BAG 3 (Bag 3 Cathon Dioxide) METHANE (CH4) (Methano) METHANE (CH4) (Methano	Light-Duty	Certification Test Data	New Business Rules: If Test Procedure (TI-8) = '65' (Evap Canister Bleed Test), '66' (Leak Test - Evap Fuel System OBD), '67' (Leak Test - Port Near Canister) or '86' (Leak Test - Port Near Fuel Pipe) then Test Result/Emission Name (TI-19) must only equal 'LEAK-DIA' (Effective Leak Diameter). If Test Procedure (TI-8) = '69' (Leak Test - Evap Gas Cap) then Test Result/Emission Name (TI-19) must only equal 'LEAK-GAS CAP' (Gas Cap Leakage). If the Fuel Type (TI-9) equals '46' (CARB LEV3 E10 REGULAR GASOLINE), '47' (CARB LEV3 E10 REGULAR GASOLINE), '47' (CARB LEV3 E10 REGULAR GASOLINE), '47' (CARB LEV3 E10 PREMIUM GASOLINE), '48' (TIER 3 E10 REGULAR GASOLINE), AND the Test Procedure (TI-8) equals '23' (FED FUEL 2 DAY EVAP (BUTANE)), '27' (CA FUEL 2 DAY EVAP (BUTANE LOAD)), '32' (FED FUEL 10AY EVAP (BUTANE LOAD)), '33' (FED FUEL 2 DAY EVAP(HEAT TO LOAD)), '43' (FED FUEL 2 DAY EVAP(HEAT TO LOAD)), '40' (FED FUEL 2 DAY EVAP(HEAT TO LOAD)), '40' (FED FUEL 2 DAY EVAP(HEAT TO LOAD)), '30' (FED FUEL 2 DAY EVAP(HEAT TO LOAD)), '31' (FED FUEL 2 DAY EXH (BUTANE LOAD)), '31' (FED FUEL 2 DAY EXH (BUTANE LOAD)), '31' (FED FUEL 2 DAY EXH (BUTANE LOAD)), '31' (FED FUEL 2	Manufacturer/ LOD	Front end	XML	LD-CTD-TI-BR022c LD-CTD-TI-BR022d LD-CTD-TI-BR023a LD-CTD-TI-BR023b LD-CTD-TI-BR023b LD-CTD-TI-BR024a LD-CTD-TI-BR024a LD-CTD-TI-BR024c LD-CTD-TI-BR024c LD-CTD-TI-BR025b LD-CTD-TI-BR025b LD-CTD-TI-BR025b LD-CTD-TI-BR025b LD-CTD-TI-BR025b LD-CTD-TI-BR026a LD-CTD-TI-BR026a LD-CTD-TI-BR026a LD-CTD-TI-BR026b LD-CTD-TI-BR

	Verify Light-Duty Data Requirements						
		verry Light-puty Data Requ	m officites	TI-19 BRs Continued LD-CTD-TI-BR035a			
				LD-CTD-TI-BR035b LD-CTD-TI-BR037 LD-CTD-TI-BR047a LD-CTD-TI-BR047b LD-CTD-TI-BR049a			
				LD-CTD-TI-BR049b LD-CTD-TI-BR050a LD-CTD-TI-BR050b LD-CTD-TI-BR051a LD-CTD-TI-BR051b LD-CTD-TI-BR052a			
				LD-CTD-TI-BR052b LD-CTD-TI-BR068a LD-CTD-TI-BR068b LD-CTD-TI-BR069a LD-CTD-TI-BR069b			
				LD-CTD-TI-BR076a LD-CTD-TI-BR076a LD-CTD-TI-BR076b LD-CTD-TI-BR077a LD-CTD-TI-BR077b LD-CTD-TI-BR078a			
				LD-CTD-TI-BR078b LD-CTD-TI-BR079a LD-CTD-TI-BR079b LD-CTD-TI-BR081			
				TI-19 BRs Continued			
				LD-CTD-TI-BR083b LD-CTD-TI-BR090 LD-CTD-TI-BR091 LD-CTD-TI-BR092 LD-CTD-TI-BR093			
				LD-CTD-TI-IB008 LD-FE-CA-BR161 LD-FE-GL-BR125 LD-FE-GL-BR126 LD-FE-GL-BR127 LD-FE-GL-BR128			
				LD-FE-GL-BR129 LD-FE-GL-BR130 LD-FE-GL-BR131 LD-FE-GL-BR132 LD-FE-GL-BR132 LD-CERT-TG-BR062a			
				LD-CERT-TG-BR062b LD-CERT-TG-BR062c LD-CERT-TG-BR225 LD-CERT-TG-BR236 LD-CERT-TG-BR240 LD-CERT-TG-BR241			
				LD-CERT-TG-BR242 LD-CERT-TG-BR243 LD-CERT-TG-BR244 LD-CERT-TG-BR244 LD-CERT-TG-BR245			
				Verify Light-I	Duty Data Requ	irements	
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				verny Light-	Duty Data kequ	irements	
				Manufacturer/			LD-CTD-TI-BR084a
	Light-Duty	Certification Test Data		LOD	Front end	XML	LD-CTD-TI-BR084b
MPG = miles per gallon MPK = miles per kilogram KW-HR/100MILES = kilowatt-hour per mile	Light-Duty	Certification Test Data	FE Units might be changing with the new FE Label rule	Mfr	Front End	XML	LD-CTD-TI-BR038 LD-CTD-TI-BR039 LD-CTD-TI-IB002
	Light-Duty	Certification Test Data		Verify	Back End	Assigned	
			Must use ASTM rounding methodology.				
	Linkt D. (Don't round Integrated Amp-hours, System Start State of Charge Watt-hours, System) (avif.)	Daels Ea d	Antimod	
	Light Duty		LETTU State of Charge Watt-hours	verity	Back End	Assigned	
	Light Duty	Certification Test Data		Verifv	Back End	Assigned	

Office of Transportation and Air Quality July 2014

			Verify Light	t-Duty Data Requ	irements	
Light Duty	Certification Test Data		Verify	Back End	Assigned	
Light Duty	Certification Test Data		Verify	Back End	Assigned	
Light Duty	Certification Test Data		Verify	Back End	Assigned	LD-CERT-TG-BR189 LD-FE-CA-BR175 LD-FE-CA-BR209
		Verify BE Rule: NEW: If Test 5-Cycle	-		-	
		Category (TI-45) is 'FTP75' or 'HWY' and if Test Result/Emission Name (TI-19) values of 'HC-NM' (Non-methane Hydrocarbon),				
		'METHANE' (CH4 - Methane) and 'N2O' (Nitrous Oxide) are submitted, then				
Light Duty	Certification Test Data	is required.	Verify	Back End	Assigned	LD-CTD-TI-BR070
 Light Duty	Certification Test Data		Verify	Back End	Assigned	
Light Duty	Certification Test Data		Verify	Back End	Assigned	
Light Duty	Certification Test Data		Verify	Back End	Assigned	LD-CERT-TG-BR189
g Duty			. only	Eddk End	, losignou	
		Verify BE Rule: NEW: If Test Category (TI-				
Light Duty	Certification Test Data	43) = 'CD' (Charge Depleting), then Certification Level (TI-39) is not to be calculated.	Verify	Back End	Assigned	LD-CTD-TI-BE001

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				verity Light-	Juty Data Requ	irements	
			Verify BE Rule: NEW: If Test Procedure (TI- 8) is equal to "Charge Depleting UDDS" (Test Procedure Code = '81'), "Charge Depleting Highway" (Test Procedure Code = '84'), or "Charge Depleting US06" (Test Procedure Code = '83'), then Certification Disposition Code (TI-40) is not allowed (i.e. not calculated).				
			Verify BE Rule: NEW: If Test Result/Emission Name (TI-19) is equal to "CREE" or "OPT-CREE", then Certification Disposition Code (TI-40) are not allowed (i.e. not calculated). Verify will compare the Calculated Cert Level with the corresponding standard and will set the Certification Disposition Code to "Pass" if the Calculated				
Pass = Cert Level <= Standard			Cert Level is less than or equal to the standard, otherwise it will be set to "Fail".				LD-CTD-TI-BE002
Fail = Cert Level > Standard	Light Duty	Certification Test Data		Verify	Back End	Assigned	LD-CTD-TI-BE003
	Light Duty	Certification Test Data	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
	Light Duty	Certification Test Data		Verify	Back End	Assigned	
			Verify will compare the Calculated Cert Level with the corresponding standard and will set the Pass/Fail Indicator to "Pass" if the Calculated Cert Level is less than or equal to the standard, otherwise it will be set to "Fail".				
			A certificate will not be issued for any CSIs that contain a "Fail".				
			This is only calculated for LOD confirmatory tests- not for tests submitted by the mfr. The pass/fail calculation for mfr tests happens on the CSI in the Certification data requirements.				
Pass = Cert Level <= Standard Fail = Cert Level > Standard	Light-Duty	Certification Test Data	(delete this element from the schema since it is a Verify back-end calculation)	Verifv	Back end	Assigned	
	igin Daty	2 Stational Foot Dulu		,	_don ond	7.001g1100	

				verity Light-	Duty Data Requ	irements	
FTP = Federal Test Procedure US06 = US06 SC03 = SC03 HWY = Highway NOX EVAP = Evaporative SPIT = Spitback ORVR = On-board Refueling Vapor Recovery NCNHE = Non-City, Non-Highway Exhaust URBRNG = Urban Range HWYRNG = Highway Range AC-IDLE = A/C Idle Test CD = Charge Depleting EVAP-COMP = Evaporative - Component EVAP-CEAK = Evaporative - Leak	Light Duty	Certification Test Data	EVAP = 23, 27, 34, 38, 43, 47 FTP = 2, 11, 21, 25, 31, 35, 41, 45, 51, 52 HWY = 3 HWYRNG = 63 NCNHE = 9, 10, 72, 76 ORVR = 24, 32, 37, 44 SC03 = 95 SPIT = 15 URBRNG = 62 US06 = 16, 90, 96 A/C Idle = 60, 61, 87, 88 Charge Depleting = 81, 83, 84, 85, 86 EVAP-COMP = 64, 65 EVAP-LEAK = 66, 67, 68, 69	Verify	Back End	Assigned	LD-FE-GL-BR037 LD-CTD-TI-BR082
EL = Electricity CNG = Natural Gas D = Diesel E = Ethanol G = Gasoline H = Hydrogen LPG = LPG M = Methanol	Light Duty	Certification Test Data	EL= 62 CNG = 10, 41 D = 9, 19, 30 E = 36, 37, 38, 43, 44, 45, 71 G = 1, 6, 7, 8, 22, 23, 24, 25, 26, 27, 46, 61, 28, 29, 48, 49, 58, 59 H = 50 LPG = 42 M = 31, 32, 33, 34	Verify	Backend	Assigned	
FTP75 = Federal Test Procedure (75 °F) FTP20 = Federal Test Procedure (20 °F) US06 = US06 SC03 = SC03 HWY = Highway Nox NOT5C = Not 5-Cycle	Light Duty	Certification Test Data	This field will automatically be filled based on the test procedure (in "Test" section) associated with the test number. A valid test number is required for these test categories. FTP75 = 2, 21, 25, 31, 35, 41, 45 FTP20 = 11 HWY = 3 SC03 = 95 US06 = 90 All test procedures that don't get mapped to one of the 5 cycle categories would be set to "NOT5C".	Verify	Back End	Assigned	LD-FE-CA-BR012 LD-FE-CA-BR166 LD-FE-CA-BR167 LD-CERT-TG-BR220

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date						2014-September-26
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Tier 3 Update (Release 15.0)														\square	
EPA Data Element number	Long Name	Description	Parent's Name	XML Tag	<u>Required</u>	Multiplicity	Basic Data Type	Data Type Description	Min Length	Max Length	Pattern	<u>Total</u> <u>Digits</u>	Fractional Digits	<u>Min</u> <u>Value</u>	Max <u>Value</u>
Manufacturer Confirmatory	Vehicle Information		manufacturerConfirmatoryTestDescisionInfo											+	_
	Veniore information		manufacturer communicity rest description into												
DI-0.5	Process Code	Select the desired process code for the current submission.	DecisionInformationSubmission/DecisionInformationDetails	InformationProcessCode	1	1 per Conf Test Decision Information	A(1)	Enumeration	1	1					
DI-1	Manufacturer code	The manufacturer code will be determined from the data submitter's CDX user login profile. The manufacturer code is an alpha-numeric code which identifies a unique vehicle manufacturer. This code is assigned by EPA during the manufacturer registration process. The manufacturer name will be looked up from the Manufacturer Info table in Verify using the manufacturer code from the data submitter's CDX user	DecisionInformationSubmission/DecisionInformationDetails	EPAManufacturerCode	1	1 per Conf Test Decision Information	A(3)	String	3	3	[A-Z0-9]{3}				
DI-2	Manufacturer Name	login profile. The manufacturer name is the name of the vehicle manufacturer that is associated with the manufacturer code.	N/A	N/A	0	1 per Conf Test Decision Information	A(40)	String	1	40					
DI-3	Vehicle ID	Enter the applicable test vehicle identification number for this set of confirmatory test decision information. The vehicle ID is a unique, manufacturer-defined, alpha-numeric identification number that is assigned to each manufacturer test vehicle. The combination of test vehicle ID and vehicle configuration number entered here must be established in Verify's Test Vehicle Information database prior to submitting its confirmatory test decision information.	DecisionInformationSubmission/DecisionInformationDetails	VehicleIdentificationText	1	1 per Conf Test Decision Information	A(20)	String	1	20					
DI-4	Vehicle Configuration #	Enter the applicable test vehicle configuration number for this set of confirmatory test decision information. The vehicle configuration number is used to denote multiple configurations of a single test vehicle ID. The combination of test vehicle ID and vehicle configuration number entered here must be established in Verify's Test Vehicle Information database prior to submitting confirmatory test decision information.	DecisionInformationSubmission/DecisionInformationDetails	VehicleConfigurationNumber	1	1 per Conf Test Decision Information	N(2)	Integer	1	2				0	99
		Enter the base model year for which the				1 per Conf Test Decision									
DI-5	Model Year	vehicle is being tested.	DecisionInformationSubmission/DecisionInformationDetails	ModelYear	1	Information	D(4)	Date	4	4	уууу	1	1	1970	2050

			Verify Light-Du	ty Data Requirements								Office of	Transportatio	n and Air	Quality
DI-5.5	Represented test vehicle make	The represented test vehicle make (aka division name) for this test vehicle configuration.	N/A	ActualTestVehicleMakeText	1	1 per Conf Test Decision Information	A(20)	String	1	20					ıly 2014
DI-5.6	Represented test vehicle model	The represented test vehicle model (aka carline name) for this test vehicle configuration.	N/A	ActualTestVehicleModelText	1	1 per Conf Test Decision Information	A(50)	String	1	50					
DI-6	Actual Vehicle Model Name (Carline)	Enter the actual carline/model name represented by this test vehicle.	DecisionInformationSubmission/DecisionInformationDetails	VehicleModelText	1	1 per Conf Test Decision Information	A(50)	String	1	50		 			
DI-7	Test Group	Enter the test group for which this set of confirmatory test decision information will be used to demonstrate compliance with the applicable exhaust emission standards.	DecisionInformationSubmission/DecisionInformationDetails	TestGroupName	1	1 per Conf Test Decision Information	A(12)	String	12	12	[A-HJ-NPR- TV-Y1-9]{1} [A-Z0-9] {4,11}([\\.] [A-Z0-9] {1,6})?				
DI-8	Evaporative/Refueling Family	Enter the evaporative/refueling family for which this set of confirmatory test decision information will be used to demonstrate compliance with the applicable evaporative/refueling standards.	DecisionInformationSubmission/DecisionInformationDetails	EvaporativeRefuelingFamilyName	0	1 per Conf Test Decision Information	A(12)	String	12	12	[A-HJ-NPR- TV-Y1-9]{1} [A-Z0-9]{4} [0-9]{4}[A- Z0-9]{3}				
DI-9	Federal Exhaust Emission Standard Level	Select the applicable value representing EPA's exhaust emission standard level.	DecisionInformationSubmission/DecisionInformationDetails	FederalExhaustEmissionStandardldentifi	0	1 per Conf Test Decision Information	A(4)	Enumeration							

DI 0	Federal Exhaust Emission												
DI-9	Standard Level (continued)												
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		Select the applicable value representing				1 ner Conf Test							
	California Exhaust Emission	California's exhaust emission standard				Decision							
DI-10	Standard Level	level.	DecisionInformationSubmission/DecisionInformationDetails	CAExhaustEmissionStandardIdentifier	0	Information	A(4)	Enumeration					
		Select the applicable value representing				1 ner Conf Teet							
	Federal Evaporative Emission	EPA's evaporative emission standard		FederalEvaporativeEmissionStandardsId		Decision							
DI-11	Standard Level	level.	DecisionInformationSubmission/DecisionInformationDetails	entifier	0	Information	A(5)	Enumeration					

			Verify Light-D	uty Data Requirements						Office of	of Transportatic	n and Air Quality
												July 2014
		Select the applicable value representing			1 per Co	onf Test						
	California Evaporative	California's evaporative emission		CAEvaporativeEmissionStandardsIdentifi	Deci	ision						
DI-12	Emission Standard Level	standard level.	DecisionInformationSubmission/DecisionInformationDetails	er	0 Inforn	nation A(2)	Enumeration					
		Did EPA request a confirmatory test for			1 per Co	onf Test						
		this vehicle during the preview meeting?			Deci	ision						
DI-13	Preview meeting test decision	Answer 'Y' if yes, otherwise 'N'.	DecisionInformationSubmission/DecisionInformationDetails	PreviewTestDecisionIndicator	1 Inforn	nation A(1)	Enumeration					
		Does this test vehicle use a new engine										
		or new technology? Answer 'Y' if yes,										
		'YT' if yes, but the new			1 per Co	onf Test						
		engine/technology has already been			Deci	ision						
DI-14	New engine/new technology	tested by EPA, otherwise 'N'.	DecisionInformationSubmission/DecisionInformationDetails	NewTechnologyIndicator	1 Inforn	nation A(2)	Enumeration					
					1 per Co	onf Test						
	New engine/new technology	Enter a description of the new engine or			Deci	ision						
DI-15	description	new technology.	DecisionInformationSubmission/DecisionInformationDetails	NewTechnologyDescriptionText	0 Inforn	nation A(100) String	1	100			
		Is this test vehicle a replacement for a										
		vehicle which has previously failed an										
		emission standard at EPA or the			1 per Co	onf Test						
		manufacturer's test facility? Answer 'Y'			Deci	ision						
DI-16	Replacement for failed vehicle	if yes or 'N' if no.	DecisionInformationSubmission/DecisionInformationDetails	FailedVehicleReplacementIndicator	1 Inforn	nation A(1)	Enumeration					
	•											
		Does this test meet the criteria for a										
		notential das duzzler as defined in the										
		CED2 Answer With yos or With the										
		CFR? Answer Y II yes or IN II no.			1							
		This question must be answered for			I per Co	onritest						
		each fuel economy test procedure			Deci	Ision						
DI-25	Potential gas guzzler?	conducted by the manufacturer.	DecisionInformationSubmission/DecisionInformationDetails	PotentialGasGuzzlerIndicator	1 Inforn	nation A(1)	Enumeration					
		Is this test vehicle configuration an			1 per Ce	onf Test						
		Emission Data Vehicle or a Fuel			Deci	ision						
DI-25 1	Vehicle Purpose	Economy Data Vehicle?	DecisionInformationSubmission/DecisionInformationDetails	VehiclePurnoseIdentifier	1 Inform	nation A(4)	Enumeration					
	Veinele Fulpece				1 11011	144011 74(1)	Enamoration			-		
		La data from this pat of confirmatory toot										
		is data from this set of commatory test			1							
		decision information the highest selling			1 per Co	onritest						
	High Selling Vehicle for FE	subconfiguration within the highest		HighSellingVenicleForFuelEconomyLabell	Deci	Ision						
DI-25.15	Labeling Purposes?	sening configuration for a base level?	DecisioniniormationSubmission/DecisioninformationDetails	ngPurposesinaicator	1 Inforn	nauon A(2)	Enumeration			_		
		Does this set of Confirmatory Test			1 ner Co	onf Test						
		Decision Information support a running			Deci	ision						
DI-25.2	Running Change?	change?	DecisionInformationSubmission/DecisionInformationDetails	RunningChangeIndicator	1 Inform	nation A(1)	Enumeration					
Di 20.2		Sinaingo i	200.00 million out million out million of the million of the	. turning on angemaloator			Linumeration		+	-		
		If this set of Confirmatory Test Decision			1 per Co	onf Test						
		Information supports a running change.			Deci	ision						
DI-25.3	Running Change Number	enter the running change number.	DecisionInformationSubmission/DecisionInformationDetails	RunningChangeNumberText	0 Inform	nation A(25	String					
									1 1			
		If this set of Confirmatory Test Decision							[1-2](1)[0-	21		
		Information supports a running change			1 ner C	onf Test			[1-2](1](0- [3](0-1](1	7		
		enter the date of the running change				ision						
DI-25 4	Bunning Change Date	letter	DecisionInformationSubmission/DecisionInformationDetails	PunningChangeDate	0 Inform	nation D(8)	Data		[[0-3][1][0-	2]		
DI-23.4	Kunning Change Date			RunningChangeDate			Date		110-9/1	r	+	
		Enter the earliest date the test vehicle										
		could be delivered to EPA for										
		confirmatory testing. EPA's Laboratory										
		Operations Division will use this							[1-2]{1}[0-	9]		
		information when assigning a test date			1 per Co	onf Test			3}[0-1]{1	}		
	Earliest Vehicle EPA arrival	if this test vehicle is selected for EPA			Deci	ision			10-91(1)(0-	31		
DI-17	date	confirmatory testing.	DecisionInformationSubmission/DecisionInformationDetails	EarliestArrivalDate	1 Inform	nation D(8)	Date	8	8 1110-911	-آ {		
	Test Procedure Information		manufacturerConfirmatoryTestDescisionInfo		1	.n						
	rest roccure mormation		manufacturer comminatory resubescisioninilo		L							

CHI 17:5 Test Namic Interference Interference <thinterference< th=""> Interference</thinterference<>			Verify Light	-Duty Data Requirements						Office of	Transportation and	Air Quality
Image: specific test procedures that manufacturer test procedures were conducted on this test which by Image: specific test which by Image: specific test which by Image: specific test which by	DI-17.5	Test Number	Enter all applicable test numbers for this test group/evaporative family combination. This is a unique number assigned by Verify to identify this set of test info and results. Character 1 is the Model Year the test was originally run for, Characters 2 - 5 are the Manufacturer code followed by a dash, characters 6 -12 are the sequential 7- digit test number. For the sequential test number, if it begins with 9 its an EPA test, any other number is a manufacturer test. A sample test number is "MFR-9012345".	/ TestNumberldentifier	1	1 per test procedure/test fuel type combination per Conf Test Decision Information A(12)	Fixed String	12	12			Julý 2014
DI-18 I used Ithe manufacturer. I TestProcedureIdentifer I I Information N(2) Enumeration	DI-18	Manufacturer test procedures	Enter all applicable test procedures that were conducted on this test vehicle by the manufacturer.	TestProcedureIdentifer	1	1 per test procedure/test fuel type combination per Conf Test Decision Information N(2)	Enumeration					
	D1 10	4304			-							

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														1	
						1 por tost									
						procedure/test									
						fuel type									
		Enter the numeric fuel type code that specifies the fuel type used in				Conf Test									
		manufacturer testing for this test				Decision									
DI-19	Test Fuel type code	procedure.		TestFuelTypeCode	1	Information	N(2)	Enumeration							<u> </u>
						1 per Teet Fuel									
						Type Code per									
						Test									
						Procedure/Test									
						Combination per									
		This is a system generated field based				Conf Test									
DI-20	Test Fuel type description	on the value entered for the "lest Fuel Type Code"	n/a	n/a	0	Information	A(40)	String	1	40					
5120			10 X				, (()	Currig	-	10					
		Does this set of confirmatory test													
		decision information meet the criteria in the CEP that defines when a				1 per test									
		manufacturer confirmatory test is				fuel type									
		required? Answer 'Y' for "yes" or 'N' for				combination per									
	Mfr. confirmatory test required	for each test procedure conducted by	DecisionInformationSubmission/DecisionInformationDetails/			Decision									
DI-21	for mfr. test procedure?	the manufacturer.	TestProcedureInformationDetails	ManufacturerTestRequiredIndicator	1	Information	A(1)	Enumeration	1	1					
						1 par teat									
		Did this test vehicle previously fail an				procedure/test									
		emission test as defined in the CFR?				fuel type									
		Answer 'Y' if yes or 'N' if no. This question must be answered for each				Conf Test									
		test procedure conducted by the	DecisionInformationSubmission/DecisionInformationDetails/			Decision									
DI-22	Failed an emission test?	manufacturer.	TestProcedureInformationDetails	TestFailedIndicator	1	Information	A(1)	Enumeration							<u> </u>
		Are any of the emission results for this													
		test within 90% of the applicable				1 per test									
		CFR for manufacturer conducted				fuel type									
		testing? Answer 'Y' if yes or 'N' if no.				combination per									
		This question must be answered for	DesicionInformationSubmission/DesicionInformationDetails/			Conf Test									
DI-23	Emissions > 90% of standard?	manufacturer.	TestProcedureInformationDetails	Within90PercentOfStandardIndicator	1	Information	A(1)	Enumeration							
							. ,								
		Does this test have higher than				1 per test									
		expected fuel economy as defined in				procedure/test									
		the CFR for manufacturer conducted				fuel type									
		testing? Answer Y if yes or 'N' if no.				Conf Test									
	Higher than expected fuel	each fuel economy test procedure	DecisionInformationSubmission/DecisionInformationDetails/	HigherThanExpectedFuelEconomyIndicat		Decision									
DI-24	economy?	conducted by the manufacturer.	TestProcedureInformationDetails	or	1	Information	A(1)	Enumeration							(I

			Verify Light-Dut	y Data Requirements							Office of Transportatio	n and Air (Quality
DI-26	Fuel economy > Class leader?	Does this test meet the criteria for fuel economy class leader as defined in the CFR for manufacturer conducted testing? Answer 'Y' if yes or 'N' if no. This question must be answered for each fuel economy test procedure conducted by the manufacturer.	DecisionInformationSubmission/DecisionInformationDetails/ TestProcedureInformationDetails	FuelEconomyGreaterThanLeaderIndicato	1	1 per test procedure/test fuel type combination per Conf Test Decision Information	A(1)	Enumeration					ý 2014
	Manufacturer Submission		manufacturerConfirmatoryTestDescisionInfo										
DI-28	Manufacturer comments	Enter any comments to describe the changes being made if this is an update to a previously submitted set of confirmatory test decision information for which EPA has already made its confirmatory testing decision. A system-generated field indicating the	DecisionInformationSubmission/DecisionInformationDetails	SubmissionCommentText	0	1 per Conf Test Decision Information	A(500)	String	1	500			
DI-29		date that this set of confirmatory test decision information is submitted to EPA.			1	1 per Conf Test Decision Information	D(8)	Date					
DI-30	Manufacturer Confirmatory Test Contact Name	The name of the manufacturer representative that should be contacted if EPA has questions regarding this set of confirmatory test decision information. The contact's email address and phone number will be looked up from the contact information previously entered by the manufacturer in the Manufacturer Information module of Verify.	N/A	ContactRepresentativeName	1	1 per Conf Test Decision Information	A(50)	String		50			
DI 21	Mfr Confirmatory Test Contact	E-mail address of the manufacturer representative that should be contacted if EPA has questions regarding this set of confirmatory test decision information. The contact's email address will be looked up from the contact information previously entered by the manufacturer in the Manufacturer Information module of Varify.	N/A	ContactEmpilTayt	1	1 per Conf Test Decision	4(100)	String		100			
DI-31	Manufacturer Confirmatory Test Contact Phone Number	Phone number of the manufacturer representative that should be contacted if EPA has questions regarding this set of confirmatory test decision information. The contact's phone number will be looked up from the contact information previously entered by the manufacturer in the Manufacturer Information module of Verify.	IN/A	ContactPhoneNumberText	1	1 per Conf Test Decision Information	A(25)	String		25			
	CISD Test Decision Information												
DI-33	Random test selection rate	Internal EPA field only. Adjustable % rate used for random test selection algorithm. Determined by EPA.	DecisionInformationSubmission/DecisionInformationDetails/ EPAGeneratedDecisionInformationDetails	RandomTestSelectionRate	1	1 per Conf Test Decision Information	N(2)	Integer				0	99
DI-34	Random test selection indicator	confirmatory test was a random selection. Y/N; default == null.	DecisionInformationSubmission/DecisionInformationDetails/ EPAGeneratedDecisionInformationDetails	RandomTestSelectionIndicator	1	Decision Information	A(1)	Enumeration					
DI-35	EPA Testing decision indicato	Internal EPA field only. Indicates if confirmatory test will be conducted at rEPA. Y/N: default == null.	DecisionInformationSubmission/DecisionInformationDetails/	EPATestDecisionIndicator	1	1 per Conf Test Decision Information	A(1)	Enumeration	1	1			

			Verify Light-Dut	/ Data Requirements				0	Office of Transportation an	nd Air Quality
DI-36	Reason for confirmatory EPA	Internal EPA field only. Multiple predefined codes used to lookup reason for conf EPA test' descriptions	DecisionInformationSubmission/DecisionInformationDetails/	EPAConfirmatory/TestReasonCode	1 per Conf Test Decision	N(2) Enumeration	2 2			July 2014
		Internal EPA field only.								
		Possible values: '01' = random audit			1 per Conf Test					
51.07	Reason for confirmatory EPA	'06' = new engine/technology			Decision					
DI-37	testing code description	'99' = other reason		CISDTestDecisionInformation	1 Information	A(40) Enumeration	2 2			
		codes which correspond to a set of								
		unique test procedures used for confirmatory testing at EPA Multiple			1 n per Conf					
DI 20	Test procedure codes selected	d predefined codes used to lookup test	DecisionInformationSubmission/DecisionInformationDetails/	EDATestDressdursCade	Test Decision	N(2) Enumeration				
DI-36	for EPA Commatory resting		EPAGeneraledDecisionmiormationDetails/EPATestDetails	EPATESIPIOCEdureCode	1 Information	N(2) Enumeration				
		Internal EPA field only. The test fuel that will be used for each of the test			1n per Conf					
DI-38.5	Test Fuel Type Code For EPA Confirmatory Testing	procedures selected by EPA for EPA confirmatory testing.	DecisionInformationSubmission/DecisionInformationDetails/ EPAGeneratedDecisionInformationDetails/EPATestDetails	EPATestFuelTvpeCode	1 Test Decision	N(2) Enumeration				

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Ob-39 Special testing instructions Decision/information/basils Special testing instruction Add marked and based and
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Di-40 Number of preps process outputs Personal control N(2) integer 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
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Di-44 Cert comments Internal EPA field only. CCD analyst DecisionInformationDetails/ EPAGeneratedDecisionInformationDetails/ CertificationCommentText 0 Internal PA N
Internal EPA field only. Internal EPA fi
DI-45 Manufacturer report suppression indicator N = Report is automatically sent following the EPA confirmatory test report is not sent electronically sent following the EPA confirmatory test. DecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ LOD test Scheduling information Internal EPA field only. Test date assigned by LOD. DecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ LOD test Scheduling information Internal EPA field only. Test date assigned by LOD. DecisionInformationSubmission/DecisionInformationDetails/ EPA GeneratedDecisionInformationDetails/ LOD TestScheduleDetails AssignedTestDate I per Conf Test Decision Information I a <thi a<="" th=""> I a <thi a<="" th=""> I</thi></thi>
Manufacturer report suppression indicator N = Report is automatically sent following the EPA confirmation Submission/DecisionInformationDetails/ EPAGeneratedDecisionInformationDetails/ DI-46 Manufacturer Report SuppressionIndicator A(1) Enumeration 1
LOD Test Scheduling Information LOD Test Scheduling Information Image: Constraint of the state
DI-46 LOD assigned test date Internal EPA field only. Test date assigned by LOD. DecisionInformationSubmission/DecisionInformationDetails/ LOD TestScheduleDetails AssignedTestDate 1 Iper Conf Test Decision Decision B B B C C C C Internal EPA field only. LOD DecisionInformationDetails/ LOD TestScheduleDetails AssignedTestDate 1 Iper Conf Test Decision Decision 8 8 C
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Di-47 LOD test date assigner representative who assigned test date. LOD restoreduleDetails Test DateAssignerName 1 Information A(50) String 1 50
DI-48 LOD test date assigner 2 different than logged in user. LOD TestScheduleDetails TestDateAlternateAssignerName 1 Information A(50) String 1 50
LOD date of test date Internal EPA field only. Date of test DecisionInformationSubmission/DecisionInformationDetails/ 1 per Conf Test 1 <th1< th=""> 1 <th1< th=""> 1 1 <th1< td="" th<=""></th1<></th1<></th1<>
DecisionInformationDecisionInformationDetails/
DI-50 LOD comments representative defined. EPAGenerated Decision information Details/ Decision A(200) String 1 200
Retest Information Retest Information
DI-51 Retest needed? Internal EPA field only. Y/N; default == null. Entered by Cert analyst. Y = Need to conduct a retest. N = No need to retest. Decision is made by CISD, LOD, and munifacturer, or a combination of the RetestInformationDetails/ DecisionInformationDetails/ RetestInformationDetails/ N = No need to retest. Decision DecisionInformationDetails/ N = No need to retest. Decision RetestInformationDetails/ N = No need to retest. Decision RetestInformatio
Internal EPA field only. Comment entered by LOD or CISD DecisionInformationDetails/ EPAGeneratedDecisionInformationDetails/
DI-52 Retest decision comment representative. RetestInformationDetails RetestDecisionCommentText 0 Information A(500) String 1 500
DecisionInformationDecisionInformationDetails/ Internal EPA field only. Cert analyst EPAGeneratedDecisionInformationDetails/ Decision Deci

Office of Transportation and Air Quality
July 2014
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Verify Light-Duty Data Requirements

Allowed Values	Industry Light Duty	Process	Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
ook-up Values							
I = New dataset							
C = Correction of existing Verify dataset	Light-Duty	Confirmatory Test		Manufacturer	Front End	XML	
	Light Duty	Confirmatory Test		CDX From Users Info	Front End	XML	LD-CFT-DI-BR001 LD-CFT-DI-BR004 LD-CFT-DI-BR0105 LD-CFT-DI-BR010a LD-CFT-DI-BR010b LD-CFT-DI-BR011 LD-CFT-DI-BR0116 LD-CFT-DI-BR017 LD-CFT-DI-BR019
	Light Duty	Confirmatory Test		Verify	Back End	Pre-Existing Data	
	Light Duty	Commutery rest		Venily	Duck End	Duiu	
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-DI-BR010a LD-CFT-DI-BR010b LD-CFT-DI-BR011 LD-CFT-DI-BR019
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-DI-BR010a LD-CFT-DI-BR010b LD-CFT-DI-BR011 LD-CFT-DI-BR019
	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	LD-CFT-DI-BR002 LD-CFT-DI-BR003 LD-CFT-DI-BR010a LD-CFT-DI-BR010b LD-CFT-DI-BR010

			Vorif	Light Duty Data	boquiromonto		
			VI-8	y Light-Duty Data	kequirements		
	Light-Duty	Confirmatory Test	This change must be made on Verify front end and back end web screens but no changes are needed to the XML Schema	Verify	Back End	Pre-Existing	n/a
	Light Duty			Verify	Dack End	Duiu	11/4
			This shange must be made on Verify front and and				
			back end web screens but no changes are needed	N		Pre-Existing	
	Light-Duty	Confirmatory Test	to the XML Schema	verity	Back End	Data	n/a
	Light Duty	Confirmatory Toot	This change must be made on Verify front end and back end web screens but no changes are needed	Monufacturar	Front End	VM	
	Light Duty	Confirmatory Test	to the XML Schema	Manufacturer	Front End	XML	
							LD-CFT-DI-BR002 LD-CFT-DI-BR004
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-DI-BR006
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-DI-BR003 LD-CFT-DI-BR005 LD-CFT-DI-BR008
$\begin{array}{l} \underline{Look-up\ Values}\\ B1 = Federal\ Tier\ 2\ Bin\ 1\\ B2 = Federal\ Tier\ 2\ Bin\ 2\\ B3 = Federal\ Tier\ 2\ Bin\ 3\\ B4 = Federal\ Tier\ 2\ Bin\ 4\\ B5 = Federal\ Tier\ 2\ Bin\ 5\\ B6 = Federal\ Tier\ 2\ Bin\ 6\\ B7 = Federal\ Tier\ 2\ Bin\ 7\\ B8 = Federal\ Tier\ 2\ Bin\ 7\\ B8 = Federal\ Tier\ 2\ Bin\ 9\\ B10 = Federal\ Tier\ 2\ Bin\ 10\\ B11 = Federal\ Tier\ 2\ Bin\ 11\\ HDV1 = HDV1\ (Federal\ HD\ chassis\ Class\ 2b\ GVW\ 8501-10000)\\ HDV2 = HDV2\ (Federal\ HD\ chassis\ Class\ 3\ GVW\ 10001-14000)\\ OT = Other\\ T1 = Federal\ Tier\ 1\ (for\ use\ by\ ICIs\ only)\\ \end{array}$	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-DI-BR012

T3B160 - Federal Tier 3 Bin 160 T3B125 - Federal Tier 3 Transitional Bin 110 T3B85 - Federal Tier 3 Transitional Bin 85 T3SULEV30 - Federal Tier 3 Transitional LEV-II SULEV30 Carryover T3B70 - Federal Tier 3 Bin 70 T3B50 - Federal Tier 3 Bin 50 T3B20 - Federal Tier 3 Bin 20 T3B20 - Federal Tier 3 Bin 0 HDV2B395 - Federal Tier 3 HD Class 2b Transitional Bin 395 HDV2B340 - Federal Tier 3 HD Class 2b Transitional Bin 340 HDV2B250 - Federal Tier 3 HD Class 2b Bin 150 HDV2B170 - Federal Tier 3 HD Class 2b Bin 150 HDV2B150 - Federal Tier 3 HD Class 2b Bin 150 HDV2B150 - Federal Tier 3 HD Class 2b Bin 150 HDV2B150 - Federal Tier 3 HD Class 3 Transitional Bin 630 HDV3B630 - Federal Tier 3 HD Class 3 Transitional Bin 570 HDV3B203 - Federal Tier 3 HD Class 3 Bin 400 HDV3B270 - Federal Tier 3 HD Class 3 Bin 20 HDV3B200 - Federal Tier 3 HD Class 3 Bin 20 HDV3B200 - Federal Tier 3 HD Class 3 Bin 200 HDV3B200 - Federal Tier 3 HD Class 3 Bin 200 HDV3B200 - Federal Tier 3 HD Class 3 Bin 200 HDV3B200 - Federal Tier 3 HD Class 3 Bin 200 HDV3B200 - Federal Tier 3 HD Class 3 Bin 200 HDV3B00 - Federal Tier 3 HD Class 3 Bin 200 HDV3B00 - Federal Tier 3 HD Class 3 Bin 200 HDV3B00 - Federal Tier 3 HD Class 3 Bin 200 HDV3B00 - Federal Tier 3 HD Class 3 Bin 200 HDV3B00 - Federal Tier 3 HD Class 3 Bin 200 HDV3B00 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Fe			NEW Business Rule : 'T3B110', 'T3B85' and 'T3SULEV30' are not allowed for Model Year (DI-5) 2020 and later. NEW Business Rule : 'HDV2B395', 'HDV2B40', 'HDV3B630' and 'HDV3B570' are not allowed for Model Year (DI-5) 2022 and later.				LD-CFT-DI-BR023 LD-CFT-DI-BR024
Look-Up Values B1 = Federal Tier 2 Bin 1 B2 = Federal Tier 2 Bin 2 B3 = Federal Tier 2 Bin 3 B4 = Federal Tier 2 Bin 4 B5 = Federal Tier 2 Bin 6 B7 = Federal Tier 2 Bin 6 B7 = Federal Tier 2 Bin 7 B8 = Federal Tier 2 Bin 7 B8 = Federal Tier 2 Bin 8 L2 = California LEV-II LEV Optional U2 = California LEV-II ULEV 22 = California LEV-II ULEV 23 = California LEV-III ULEV 23 = California LEV-III ULEV 24 = California LEV-III ULEV 25 = California LEV-III ULEV 25 = California LEV-III ULEV 26 = California LEV-III ULEV 27 = California LEV-III ULEV 28 = California LEV-III ULEV 29 = California LEV-III ULEV 20 = Cali	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-DI-BR012
Look-Up Values T1 = Federal tier 1 enhanced (2 day + 3day) evap T2 = Federal tier 2 evap T3 - Federal tier 3 evap T3-32 - Federal tier 3 LEV-III zero evap (Option 1) carryover HD-2D = Heavy-duty 2-day evap (1.75 grams) HD-3D = Heavy-duty 3-day evap (1.4 grams) OT = Other	Light Duty	Confirmatory Test	NEW Business Rule : 'T3-32' is not allowed for Model Year (DI-5) 2022 and later.	Manufacturer	Front End	XML	LD-CFT-DI-BR025

Jack La Valers 22 - oldina Levi Roo Exa 22 - oldina Levi Roo Exa 23 - oldina Levi Roo Exa 24 - oldina Levi Roo Exa 25 - oldina Levi Roo Exa 27 - oldina Levi Roo Exa 27 - oldina Levi Roo Exa 27 - oldina Levi Roo Exa 28 - oldina Levi Roo Exa 29 - oldina Levi Roo Exa 20				Verify	Light-Duty Data	Requirements		
C2: Contraction Light Day Contraction Not. C2: Contraction Not. Not. Not. Calification Not. Not. Not. Not.	Look-Up Values				с ,			
Z2 Continue Live Z are Ead Control Liv	C2 = California LEV-II Evap							
Additional Local Contractory Test Manufacturer Front End XML I = Front End Kinster Contractory Test Manufacturer Front End	ZZ = California LEV-II Zero Evap							
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YT = Yes, but provinsely tested Light Duty Continuatory Test Manutacture Front End Xolt N = No Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R013 Lost Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R013 Lost Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R013 Lost Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R013 Lost Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R013 Lost Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R014 Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R014 Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R014 Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R014 Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R014 Light Duty Continuatory Test Manutacture Front End Xolt LD-CFT:0H8R014 <td< td=""><td>Y = Yes</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Y = Yes							
N : NO Light Duty Confirmatory Test Manufacturer Front End XAM. LD CFT-D1-BR013 Light Duty Confirmatory Test Manufacturer Front End XAM. LD CFT-D1-BR013 Look LD XXMess XXME Light Duty Confirmatory Test Manufacturer Front End XAM. XXME LD CFT-D1-BR014 Light Duty Confirmatory Test Manufacturer Front End XAM. XXME LD CFT-D1-BR014 L = DetEction Data Vehicle (FEDV) L = DetEction Dat	YT = Yes, but previously tested							
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1 - FED FUEL 3 DAT EAR (BUTANE LOAD)							
4 - FED FUEL S DAY EVAP(BUTAINE LOAD)							
r = cA FUEL 2 DATE (AFRICATIO LOAD)							
1 = AC17 + MINORATIC A/C CONTROLS							
5 = EVAP CANISTER BI FED TEST							
7 = LEAK TEST - PORT NEAR CANISTER							
8 = I FAK TEST - PORT NEAR FLIEL PIPE							
= LEAK TEST - EVAP GAS CAP							
6 = CST PRECD 2 SPD IDLE (EPA ONLY)							
1 = Charge Depleting LIDDS							
3 - Charge Depleting US06							
4 = Charge Depleting Highway							
5 = Charge Depleting SC03							
6 = Charge Depleting 20 Degree E ETP							
7 = A/C Idle Test- Manual A/C							
8 = A/C Idle Test- Automatic A/C							
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	Light Duty	Confirmatory Test		Verify	Back End	Pre-Existing Data	
Look-Up Values: Y = Yes N = No	Light Duty	Confirmatory Test	Need a view that lists the Vehicle IDs/Configurations that Manufacturer answered Yes for this question and that the manufacturer still hasn't submitted their confirmatory test results to Verify. Verify will check to see if any subsequent tests have been submitted for the same Vehicle ID/Configuration.	Manufacturer	Front End	XML	
Look-Up Values: Y = Yes N = No	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	
Look-Up Values: Y = Yes N = No	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	
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Verify Light-Duty Data Requirements

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$N = N_0$							
NA - Not Applicable	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	
Not Applicable	Light Duty	Commutatory rest		Wanaracturer	TTOIL EIG		
	Light Duty	Confirmatory Test		Manufacturor	Front End	YMI	
	Light Duty	Comminatory rest		Manufacturer	FIONLLIN	- AIVIL	ED-CF1-DI-BR018
	Light Duty	Confirmatory Test		Verify	Front End	ХМІ	
	Light Duty			verny		7.IVIL	
				Verify/		Pre-Existing	
	Light Duty	Confirmatory Test		Manufacturer	Back End	Data	
				Vorifid		Dro Evipting	
		Confirmation Toot		verily/	Deals Field	Pre-Existing	
		Commatory rest		wanuracturer	DACK END	Data	
				Verifv/		Pre-Existing	
	Light Duty	Confirmatory Test		Manufacturer	Back End	Data	
	Light Duty	Confirmatory Test					
	Light Duty	Confirmatory Test			Dook End	Data Entra	
		Commatory Test		EPA	BACK END	Data Entry	
Look-Up Values:							
Y = Yes							
N = No	Light Duty	Confirmation/ Test		Verify	Back End	Assianad	
				veniy	DUCK LIIU	- Assigned	
Look-Up Values:							
Y = Yes							
N = No	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	· · · · · · · · · · · · · · · · · · ·						

			Verify	Light-Duty Data	Requirements		
			· · · · · /	· · ·			
01" = "Random"							
D6" - "New Engine/Technology"							
ub = New Engine/Technology							
99" = "Other"	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	<u> </u>	,				,	
01" - "Dondom"							
JI = Random							
06" = "New Engine/Technology"						Pre-Existing	
99" = "Other"	Light Duty	Confirmatory Test		Verify	Back End	Data	
	Eight Duty	Communicatory rest		veniy	Duck End	Duiu	
= HWEE (HIGHWAY TEST)							
= HWY80 (80 MPH HIGHWAY TEST)							
) = IDLE CO							
L = COLD CO							
5 = SPITBACK TEST							
6 = Hot 1435 LA92							
L = FED FUEL 2 DAY EXH (BUTANE LOAD)							
3 = FED FUEL 2 DAY EVAP (BUTANE)							
4 = FED FUEL REFUEL (ORVR) (BUTANE)							
5 = CA FUEL 2 DAY EXH (BUTANE LOAD)							
7 = CA FUEL 2 DAY EVAP (BUTANE LOAD)							
. = FED FUEL 3 DAY EXH (BUTANE LOAD)							
2 - FED FUEL RUNNING LOSS							
I = FED FUEL 3 DAY EVAP(BUTANE LOAD)							
= CA FUEL 3 DAY EXH (BUTANE LOAD)							
(= CA FUEL RUNNING LOSS							
S = CA FUEL 3 DAY EVAP (BUTANE LOAD)							
L = FED FUEL 2 DAY EXH(HEAT TO LOAD)							
S = FED FUEL 2DAY EVAP(HEAT TO LOAD)							
+ = FED REFUEL (ORVR) (HEAT TO LOAD)							
D = CA FUEL 2 DAY EXH (HEAT TO LOAD)							
(= CA FUEL 2 DAY EVAP(HEAT TO LOAD)							
2 = FED FUEL 50 DEG(F) EXHAUST TEST							
J = AC17 - MANUAL A/C CONTROLS							
- EVAP CARD FUEL UNLT (RIG) TEST							
D - LEAK TEST - FUAD GAS CAD							
S = CST PRECD 2 SPD IDLE (EPA ONLY)							
I = Charge Depleting UDDS							
= Charge Depleting US06							
4 = Charge Depleting Highway							
5 = Charge Depleting SC03							
6 = Charge Depleting 20 Degree F FTP							
7 = A/C Idle Test- Manual A/C							
B = A/C Idle Test- Automatic A/C			NOTE: This list of EPA test procedures (DI-38) is				
) = US06			being made consistent with the comprehensive list				
5 = SC03			used for test precedure (DL19). The VML tags de				
6 = US06 Bag 2 Only			used for test procedure (DI-10). The XIVIL tays up				
	Light Duty	Confirmatory Test	not need to change.	EPA	Back End	Data Entry	
		-					
= INDOLENE 30							
= EPA UNLEADED GASOLINE							
= INDUSTRIAL UNLEADED 100 OCTANE							
= CERT DIESEL 300 PPM SUI EUR							
) = NATURAL GAS							
3 = CARB CERT DIESEL 7-15 PPM SULFUR							
FEDERAL CERT DIESEL 7-15 PPM SULFUR							
CARE REASE IL CASOLINE							
L = COLD CO REGULAR (CERT)							
= COLD CO PREMIUM (CERT)							
= COLD CO REGULAR (TIER 2)							
I = COLD CO PREMIUM (TIER 2)							
= COLD CO E10 REGULAR GASOLINE (TIER 3)							
I = COLD CO ELU PREMIUM GASOLINE (TIER 3)							
= METHANOL (CERT M10)							
= METHANOL (CERT M50)							
3 = METHANOL (CERT M85)							
= METHANOL (CERT M100)							
5 = E70 (70% ETHANOL 30% EPA UNLEADED GASOLINE)							
E E LU (10% E HANOL 90% EPA UNLEADED GASOLINE)							
= CNG							
= LPG							
8 = E10 (10% ETHANOL 90% CAL PHASE II GASOLINE)							
= E85 (85% ETHANOL 15% CAL PHASE II GASOLINE)							
= E70 (70% ETHANOL 30% CAL PHASE II GASOLINE)							
= CARB LEV3 E10 REGULAR GASOLINE							
- CARD LEVS ETU PREMIUM GASOLINE RETIER 3 ETU REGULAR GASOLINE (9 RVP @LOW ALT.)							
a TIER 3 E10 PREMIUM GASOLINE (9 RVP @LOW ALT.)							
) = HYDROGEN			NOTE: This list of EPA test fuel type (DI-38.5) is				
3 = TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR ONLY)			being made consistent with the comprehensive list				
9 = TIER 3 E10 PREMIUM GASOLINE (10 RVP-FFV ORVR ONLY)			being made consistent with the comprehensive list				
L = FIER Z CERT GASOLINE			used for test fuel type (DI-19). The XML tags do				
- ELECTRICITY		Confirmatory Test	not need to change	EDA	Back End	Data Entry	

Office of Transportation	on and Air Quality
	July 2014

Y = Yes N = No	Light Duty	Confirmatory Test	****Send this to the LOD STARDATA Test Request table which is triggered by SI submission.	EPA	Back End	Data Entry	
	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
			Default value of "1" but EPA cert ren can change to			Pre-Existing	
	Light Duty	Confirmatory Test	a different value.	EPA	Back End	Entry	
						Pre-Existing	
	Light Duty	Confirmatory Test		Verify	Back End	Data	
	Light Duty	Confirmaton/ Tost		Vorifi	Back End	Pre-Existing	
		Commatory rest		veniy	BACK EIIU	Dala	
YYYYMMDD HH:NN (24 hr)	Light Duty	Confirmatory Test		Verify	Back End	Pre-Existing Data	
	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
Possible Values:							
Y = A copy of the confirmatory test report is not sent electronically to the manufacturer.							
N = Report is automatically sent following the EPA confirmatory test.	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	Light Duty	Confirmatory Test					
		Communicatory rest					
YYYYMMDD	Light Duty	Confirmatory Test		LOD	Back End	Data Entry	
	Light Duty	Confirmatory Test		Verify	Back End	Assigned	
	Light Duty	Confirmatory Test		LOD	Back End	Data Entry	
				14.25	D. I. F. I	A	
	Light Duty	Confirmatory Test		verity	Back End	Assigned	
	Light Duty	Confirmatory Test		LOD	Back End	Data Entry	
	Light Duty	Confirmatory Test					
V = Need to conduct a ratest							
	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	Light Duty	Confirmatory Test		Verify	Back End	Assigned	

			Verify	Light-Duty Data	Requirements		
YYYYMMDD	Light Duty	Confirmatory Test		Verify	Back End	Assigned	
YYYYMMDD	Light Duty	Confirmatory Test		LOD	Back End	Data Entry	
	Light Duty	Confirmatory Test		Verify	Back End	Assigned	
YYYYMMDD	Light Duty	Confirmatory Test		Verify	Back End	Assigned	
1=void:							
2=emission failure;							
3=high coast down;							
4=FE different by > 3%	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
Y = Testing completed.							
N = I esting not completed	Light Duty	Confirmatory Test		EPA	Back End	Data Entry	
	Light Duty	Confirmatory Test					
V = LOD suchts control (OO) shads of test has been performed							
Y = LOD quality control (QC) check of test has been performed.	Light Duty	Confirmatory Test			Back End	Data Entry	
	Light Duty			LOD	Duck End	Data Entry	
	Light Duty	Confirmatory Test		Verify	Back End	Assigned	
				,	_don Lind	liceigneu	
	Light Duty	Confirmatory Test		Verify	Back End	Assigned	
				,			
YYYYMMDD	Light Duty	Confirmatory Test		Verify	Back End	Assigned	

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Verify Light-Duty Data Requirements

Date 2014-September-26

Tier 3 Update (Release 15	.0)																		
							Basic Data	Data Type		Max		Total	Fractional	Min	Max				
EPA Data element number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description	Min Length	Length	Pattern	<u>1 Digits</u>	Digits	Value	Value	Allowed Values	Industry	Process	Notes/Questions
Shift Schedule Information																			
																Look-up Values			
		Select the desired process														N = New dataset			
		code for the current	ShiftScheduleSubmission/													C = Correction of existing Verify	/	Confirmatory	/
SS-0.5	Process Code	submission.	ShiftScheduleInformationDetails	InformationProcessCode	1		A(1)	Enumeration	1	1						dataset	Light-Duty	/ Test	
																			Primany key for shift
																			schedules is: shift
		Identifier for the shift	r ShiftScheduleSubmission/								[4-70-0	1						Confirmatory	schedule ID (SS-1) + shift
SS-1	Shift schedule ID	a test	ShiftScheduleInformationDetails/	ShiftScheduleIdentifier	:	1	A(4)	String	1	4	{1,4}	1					Light-Duty	/ Test	(SS-2) + mfr code (SS-4)
																			Primary key for shift
																			schedules is: shift
		Internal EPA code for the																	schedule ID (SS-1) + Shift schedule database code
	0.10	source of the shift schedule.														A' = Monufacturora (for cort/fo)			(SS-2) + mfr code (SS-4)
SS-2	Shift schedule database	this element with "A".	r	n/a		1	A(1)	Enumeration								A – Manulacturers (IOI Certrie)	Light-Duty	/ Test	
																	<u> </u>		
																			Primary key for shift
																			schedules is: shift schedule ID (SS-1) + shift
		Manufacturer code will be	ShiftScheduleSubmission/								[A-Z0-9	1						Confirmatory	schedule database code
SS-4	Manufacturer code	assigned during login.	ShiftScheduleInformationDetails/ E	EPAManufacturerCode		1	A(3)	String	3	3	{3}	-		-			Light-Duty	/ Test	(SS-2) + mfr code (SS-4)
00.5	Shift schedule	The text description of the	ShiftScheduleSubmission/	ShiftScheduleDecriptionT				0										Confirmatory	
55-5	description	snift schedule.	ShiftScheduleInformationDetails/	ext	· · ·	0	A(30)	String	1	30	-	+					Light-Duty	/ Test	
																		Confirmatory	
SS-7	LNS error severity code	NOTE: (For EPA use only)	r	n/a		0	N(1)	Integer						0	5	05	Light-Duty	/ Test	
	Non-cruise declutch	Speed for a declutch	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/															Confirmatory	
SS-8	speed	operation	NonCruiseShiftDetails	DeclutchSpeedValue	:	1	N(4,1)	Decimal				4	1	0	200	000.0 - 200.0	Light-Duty	/ Test	
			ShiftSahadulaSubmission/																
		1-2 acceleration shift point	ShiftScheduleInformationDetails/															Confirmatory	
SS-9	Non-cruise 1-2 gear SS	speed	NonCruiseShiftDetails	Gear1To2SpeedValue	:	1	N(4,1)	Decimal				4	1	0	200	000.0 - 200.0	Light-Duty	/ Test	
			ShiftSchoduloSubmission/																
		2-3 acceleration shift point	ShiftScheduleInformationDetails/															Confirmatory	
SS-10	Non-cruise 2-3 gear SS	speed	NonCruiseShiftDetails	Gear2To3SpeedValue		0	N(4,1)	Decimal				4	1	0	200	000.0 - 200.0	Light-Duty	/ Test	
			ShiftScheduleSubmission/																
		3-4 acceleration shift point	ShiftScheduleInformationDetails/			_												Confirmatory	
SS-11	Non-cruise 3-4 gear SS	speed	NonCruiseShiftDetails	Gear3To4SpeedValue	-	U	N(4,1)	Decimal	+		-	4	1	0	200	000.0 - 200.0	Light-Duty	/ Fest	
			ShiftScheduleSubmission/																
00.10		4-5 acceleration shift point	ShiftScheduleInformationDetails/					De star i										Confirmatory	
ISS-12	Non-cruise 4-5 gear SS	speed	NonCruiseShiftDetails	Gear4To5SpeedValue	1	0	N(4,1)	Decimal	1	1	1	4	1	1 0	200	000.0 - 200.0	Light-Dutv	/ I Fest	

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					Verify Ligh	t-Duty D	Data Requiremer	ts								Office of Transportation and Ai
SS-13	Non-cruise 5-6 gear SS	5-6 acceleration shift point speed	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ NonCruiseShiftDetails	/ Gear5To6SpeedValue	o	N(4,1)) Decimal		4	1	0	<u>2</u> 00	000.0 - 200.0	Light-Duty	Confirmatory Test	,
			ShiftScheduleSubmission/													
SS-14	Non-cruise 6-7 gear SS	6-7 acceleration shift point speed	ShiftScheduleInformationDetails/ NonCruiseShiftDetails	Gear6To7SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
SS-15	Non-cruise 7-8 gear SS	7-8 acceleration shift point speed	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ NonCruiseShiftDetails	, Gear7To8SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
SS-16	Cruise declutch speed	Cruise speed for a declutch operation	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ CruiseShiftDetails	, DeclutchSpeedValue	1	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
SS-17	Cruise 1-2 gear SS	1-2 cruise shift point speed	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ CruiseShiftDetails	Gear1To2SpeedValue	1	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
26 10	Cruice 2.2 more 55	2.2 oruino chift point or and	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ CruiseShiftDotoile	Coor2To2SpeedVolue	0				4	1		200	000.0 200.0	Light Dut	Confirmatory	
52-18	Cruise 2-3 gear 55	2-3 cruise shint point speed	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/	Gear2103Speedvalue	0	N(4,1)) Decimai		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory	
SS-19	Cruise 3-4 gear SS	3-4 cruise shift point speed	CruiseShiftDetails ShiftScheduleSubmission/ ShiftScheduleInformationDetails/	Gear3To4SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Test	
<u>3S-20</u>	Cruise 4-5 gear SS	4-5 cruise shift point speed	CruiseShiftDetails ShiftScheduleSubmission/	Gear4To5SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Test	
SS-21	Cruise 5-6 gear SS	5-6 cruise shift point speed	ShiftScheduleInformationDetails/ CruiseShiftDetails	Gear5To6SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
SS-22	Cruise 6-7 gear SS	6-7 cruise shift point speed	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ CruiseShiftDetails	Gear6To7SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
SS-23	Cruise 7-8 gear SS	7-8 cruise shift point speed	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ CruiseShiftDetails	Gear7To8SpeedValue	0	N(4,1)) Decimal		4	1	0	200	000.0 - 200.0	Light-Duty	Confirmatory Test	
													002' - FTP (Cert); '003' - HWFE (Cert); '004' - US06 (Cert); '006' - HWY80 '007' - LA92 '021' - LA4 (prep only); '022' - LA4; '023' - 505; '031' - HWFE (no warmup); '101' - SCC#1;			CSC: Because there are some records in Verify that already have used '021'.
SS-56	Drive schedule name code	Code identifying a particlar drive cycle, e.g. the FTP drive cycle.	ShiftScheduleSubmission/ ShiftScheduleInformationDetails	DriveScheduleNameCode	1	A(3)	Enumeration						102'-SCC#2;- 103'-BIH (Auto);- 104'-BIH (Manual);- 111'-3BagHWFE;- 112'-3Bag505;- 121'-LA4 (perturbed 1.5)	Light-Duty	Confirmatory Test	'022', and '101' please only remove the codes from the XML schema and front-end drop-down menus. i.e. those values should remain in the database.
			ShiftScheduleSubmission/												Confirmatory	Required for a new shift
<u>3S-57</u>	Model year	NOTE: Initial entry only.	ShiftScheduleInformationDetails	ModelYear	0	N(4)	Date		4		1970	2100	1970 2100	Light-Duty	Test	schedule submission.
		Enter additional information	ShiftScheduleSubmission/	ShiftScheduleCommentTe											Confirmatory	
55-58	Comments	about the shift schedule.	ShiftScheduleInformationDetails	xt	0	A(200)) String	1 200			1		1	Light-Duty	lest	

					v	/erify Light-Duty [Data Requiremer	ts							Office of Transportation and Air C	Quality
		System-assigned when initially creating a shift schedule. To modify a shift point, a shift time must exist for the shift schedule. To insert a new shift point, a new shift point is submitted but not the shift point number the system will				/erify Light-Duty [)ata Requiremer	ts							Office of Transportation and Air (Jul	Quality y 2014
		automatically adjust the shift	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/												Confirmatory	
SS-59	Shift point number	new shift point.	ShiftPointDetails	ShiftPointNumber	0 1n	N(3)	Integer		3		1	999		Light-Duty	Test	
SS-60	Shift time	Time in seconds from beginning of test drive cycle.	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/ ShiftPointDetails	ShiftTimeMeasure	1shifti 1_mber	PointNu N(5,1)	Decimal		5	1	0	2500	0000.0 - 2500.0	Light-Duty	Confirmatory Test	
SS 61	Shift spood	in miles per hour (MPH) only.	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/	ShiftSpoodMoosuro	1shifti	PointNu	Docimal		4	1	0	200	000.0	Light Duty	Confirmatory	
S5-62	Shift action code	Code describing a shift event	ShiftScheduleSubmission/ ShiftScheduleInformationDetails/	ShiftActionCode	1shifti	PointNu	Enumeration						20 - declutch; 10 - declutch; 20 - declutch; 30 - declutch; 20 - declutch; 30 - declutch; 20 - declutch; 50 - declutch; 20 - declutch; 50 - declutch; 20 - declutch; 50 - declutch; 21 - upshift 10 - 2; 14 - upshift 30 + 4; 22 - upshift 20; 34 - upshift 30 + 4; 32 - upshift 20; 34 - upshift 30 + 4; 32 - downshift 70 + 6; 54 34 - downshift 30 + 7; 6; 34 - downshift 30 + 7; 6; 34 - downshift 30 + 2; 14 34 - downshift 30 + 2; 14 35 - down-sigpshift 30 + 2; 14 36 - down-sigpshift 30 + 2; 14 36 - down-sigpshift 30 + 2; 14 36 - down-sigpshift 70 + 2; 14 36 - down-sigpshift 10 + 2; 14 37 - down-sigpshift 10 + 2; 14 36 - down-sigpshift 50 + 3; 2; 36 - down-sig	Light-Duty	Confirmatory	

					Verify Ligh	t-Duty Data Requireme	nts						Office of Transportation and Air Quality
SS-63	Alternative Shift Action Description	Enter only if 'shift action code' = 99	ShiftScheduleSubmission/ ShiftScheduleInformationDetails ShiftPointDetails	s/ ShiftPointScreenText	1shiftPointNu 0mber	A(9) String	0	9			Light-Duty	Confirmatory Test	
SS-64	Shift point H/V indicator	for FPA use only		n/a	0	A(1) Enumeration				'H' or 'V'	Light-Duty	Confirmatory Test	
SS-65	Shift point L/R indicato	for EPA use only.		n/a	0	A(1) Enumeration				L' or 'R'	Light-Duty	Confirmatory Test	
SS-66	Exception point code	asterisk, 'N' or blank include this shift point speed in the VDA shift pattern calculations; 'Y' or 'X' do not include this shift point speed in the VDA shift pattern calculations		ExceptionPointCode	1shiftPointNu 0mber	A(1) Enumeration				*' (asterisk), 'N', blank, 'Y', 'X'	Light-Duty	Confirmatory Test	
SS-67	Cruise point	For EPA use only		n/a	0	A(1) String	1	1			Light-Duty	Confirmatory Test	

ſ				
	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
ł				
	Manufacturer	Front End	XML	LD-CFT-SS-BR009
				LD-CFT-SS-BR001a LD-CFT-SS-BR001b
ł	Manufacturer	Front End	XML	LD-CFT-SS-BR006
				LD-CFT-SS-BR001a
	Verify	Back End	Assigned	LD-CFT-SS-BR001b LD-CFT-SS-BR006
				LD-CET-SS-BP001a
				LD-CFT-SS-BR001b LD-CFT-SS-BR002
	CDX From			LD-CFT-SS-BR004 LD-CFT-SS-BR005
ł	Users Info	Front End	XML	LD-CFT-SS-BR006
	Manufacturer	Front End	XML	
ł	EPA	Back End	Data Entry	
ł	Manufacturer	Front End	XML	
	Manufacturer	Front End	XML	
	Manufacture	Front Facil	VA.*	
	Manufacturer	⊢ront End	XML	
	Manufacturer	Front End	XML	
	Manufacture		YA4	
l	wanulacturer	FIONLENG	XIVIL	

65 of 350

Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	YMI	
Manufacturer		XIVIL	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	
Manufacturer	Front End	XML	

Verify(Manufact urer when not	Front End	YMI	LD-CFT-SS-BR007
new)	Front End	XML	LD-CF1-SS-BRU08
Manufacturer Manufacturer	Front End	XML	LD-CFT-SS-BR007
Manufacturer	Front End	XML	

72351601 SS+

Manufacturer	Front End	XML	LD-CFT-SS-BR003
EPA	Back End	Data Entry	
EPA	Back End	Data Entry	
EPA	Back End	XML	
EPA	Back End	Data Entry	

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date: 2014-September-26

Tier 3 Update (Release 15.0)															
EPA Data element number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	<u>Min</u> Length	<u>Max</u> Length	Patter n	<u>lotal</u> Digits	<u>Fractional</u> Digits	Min Value	Max Value
Confirmatory Test Suppleme	ntal Information				•										
SI-0.5	Process Code	Select the desired process code for the current submission.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	InformationProcessCode	1	1 per CT Supplemental Information	A(1)	Enumeration	1	1					
SI-1	Manufacturer code	The manufacturer code will be determined from the data submitter's CDX user login profile. The manufacturer code is an alpha-numeric code which identifies a unique vehicle manufacturer. This code is assigned by EPA during the manufacturer registration process.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	EPAManufacturerCode	1	1 per CT Supplemental Information	A(3)	String	3	3	[A-Z0- 9]{3}				
SI-2	Vehicle ID	Enter the applicable test vehicle identification number for this set of supplemental confirmatory test information. The vehicle ID is a unique, manufacturer-defined, alpha-numeric identification number that is assigned to each manufacturer test vehicle. The combination of test vehicle ID and vehicle configuration number entered here must be established in Verify's Test Vehicle Information database prior to submitting supplemental confirmatory test information.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	VehicleIdentificationText	1	1 per CT Supplemental Information	A(20)	String	1	20					
SI-3	Vehicle Configuration #	Enter the applicable test vehicle configuration number for this set of supplemental confirmatory test information. The vehicle configuration number is used to denote multiple configurations of a single test vehicle ID. The combination of test vehicle ID and vehicle configuration number entered here must be established in Verify's Test Vehicle Information database prior to submitting supplemental confirmatory test information.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	VehicleConfigurationNumbe r	1	1 per CT Supplemental Information	N(2)	Integer	1	2				0	99
SI-3.5	Model Year	Enter the model year for which the vehicle is being tested.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	ModelYear	1	1 per CT Supplemental Information	D(4)	Date	4	4	уууу			1970	2050
SI-4	Curb weight	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.			1	1 per CT Supplemental Information	N(5)	Integer						0	14000

			0		Verify	Light-Duty Data Requirements							Office o	f Transportation and Air Qualit
		axle weight with an empty fuel tank	 Supplementalinf ormationSubmis 											July 201
	Drive and a side of another	for this test vehicle configuration.	sion/											
SI-5	tank of fuel	units of pounds.	ormationDetails	Value	1	1 per CT Supplemental Information	N(5)	Integer				200	14.000	
		Enter the actual or estimated drive	Supplementalinf										,	
		axle weight with a full fuel tank for	ormationSubmis											
	Drive externeight w/ full tenk	this test vehicle configuration. The	sion/											
SI-6	of fuel	pounds.	ormationDetails	lue	1	1 per CT Supplemental Information	N(5)	Integer				200	14,000	
		The value for this field will be												
		Information that was previously												
SI-7	Test Drive Code	entered.	n/a	n/a	1	1 per CT Supplemental Information	N(1)	Enumeration				_		_
			SupplementalInf											
		Select the applicable code	ormationSubmis											
		specifying the location of the	SupplementalInf	SteeringWheelLocationIden										
SI-8	Steering Wheel Location	steering wheel for this test vehicle.	ormationDetails	tifier	1	1 per CT Supplemental Information	A(1)	Enumeration						_
		The value for this field will be												
		Information that was previously												
SI-9	Displacement	entered.	n/a	n/a	1	1 per CT Supplemental Information	N(5,3)	Decimal		5	3			
		Select the applicable numeric code												
		specifying the type of engine	SupplementalInf											
		design for this test vehicle. For example, '1' = Otto spark. Other	ormationSubmis sion/											
01.40		possible values include diesel,	SupplementalInf	LightDutyEngineTypeIdentifi	4									
SI-10	Engine type code	nybrid, gas turbine, fuei cell, etc.	ormationDetails	er	1	1 per CT Supplemental Information	N(2)	Enumeration						-
		The value for this field will be looked-up from the Test Vehicle												
		Information that was previously		,										
SI-12	Equivalent test weight (ETW)	entered.	n/a	n/a	1	1 per CT Supplemental Information	N(5)	Integer				0	14000	-
			SupplementalInf											
			ormationSubmis											
			SupplementalInf											
			ormationDetails/											
		Value will automatically be set to	upplementalInfor	EquivalentTestWeightUnitId										
SI-13	Equivalent test weight unit	'P' = pounds.	mationDetails	entifier	1	1 per CT Supplemental Information	A(1)	String						-
			SupplementalInf											
			ormationSubmis											
			SupplementalInf											
			ormationDetails/											
		Will be set automatically to '1'	upplementalInfor											
SI-14	Model code	(sedan).	mationDetails	ModelYear	1	1 per CT Supplemental Information	A(2)	String	_			_		_
			Supplementalinf											
			ormationSubmis											
			sion/ SupplementalInf											
			ormationDetails/											
		Will be set automatically to '01'	upplementalInfor											
SI-15	Vehicle Type Description	(Cert Emission Data).	mationDetails	VehicleTypeDescriptionText	1	1 per CT Supplemental Information	N(2)	Integer				_		4
			SupplementalInf											
		Enter the front wheel tire pressure	ormationSubmis											
		this test vehicle, in units of pounds	SupplementalInf	FrontWheelTirePressureVal										
SI-16	Front wheel tire pressure	per square inch.	ormationDetails	ue	1	1 per CT Supplemental Information	N(3)	Integer						
2001001 j+														70 01 350

					Verify	llight-Duty Data Requirements							Office o	f Transportation and A
		Enter the rear wheel tire pressure	ormationSubmis											
		used for dynamometer testing of	sion/	Paar/M/baalTiroProceure/ /al										
SI-17	Rear wheel tire pressure	per square inch.	ormationDetails	ue	1	1 per CT Supplemental Information	N(3)	Integer						
			SupplementalInf]
		Enter the standard time (vice size	ormationSubmis											
		Enter the standard tire/rim size description as imprinted on the	sion/ SupplementalInf	RimAndTireSizeDescription										
SI-18	Rim and tire size	side wall of the tire.	ormationDetails	Text	1	1 per CT Supplemental Information	A(20)	String	1	20				
			SupplementalInf											
			ormationSubmis											
	Driver selectable	Does this test vehicle have a	SupplementalInf	DriverSelectableTransmissi										
SI-19	transmission?	driver-selectable transmission?	ormationDetails	onIndicator	1	1 per CT Supplemental Information	A(1)	Enumeration						-
		Enter a description of the driver-												
		selectable transmission mode that												
		example, drive in fully automatic	SupplementalInf											
		mode or using the select shift	ormationSubmis											
	Transmission mode tested	'Driver Selectable Transmission' =	SupplementalInf	DriverSelectableTransmissi										
SI-20	description	Ϋ́.	ormationDetails	onDescriptionText	0	1 per CT Supplemental Information	A(50)	String	1	50				-
		The value for this field will be												
		determined from the values entered for 'transmission type'.												
		'transmission lockup', creeper												
		gear', and 'number of transmission gears' that are part of the Test												
0.04	Transmission Configuration	Vehicle Information dataset that												
51-21	Code	was previously entered.	n/a	n/a	1	1 per CT Supplemental Information	N(2)	Enumeration		+				-
SI-24	Vehicle purpose	Select the appropriate purpose for this test.			1	1 per CT Supplemental Information	N(2)	Enumeration						
0. 1 1			Cupplomental		±			Litanoration						1
			ormationSubmis											
			sion/											
SI-26	Nominal main tank capacity	Enter the nominal main fuel tank capacity of the test vehicle.	SupplementalInf ormationDetails	FuelTankCapacitvMeasure	0	1 per CT Supplemental Information	N(4.1)	Decimal			4		999.9	
			Supplomental		-	· · · · · · · · · · · · · · · · · · ·								1
			ormationSubmis											
		Salaat the applicable fiel tert	sion/											
SI-27	Fuel tank capacity unit	units. 'G' = gallons: 'L' = liters	ormationDetails	fier	0	1 per CT Supplemental Information	A(1)	Enumeration						

				Verify light-Duty Data Requirements							Office of Transportation			
			SupplementalInf ormationSubmis sion/											July 20
SI-28	Nominal auxiliary tank capacity	Enter the nominal auxiliary tank capacity of the test vehicle.	SupplementalInf ormationDetails	AuxilliaryFuelTankCapacity Measure	0	1 per CT Supplemental Information	N(4,1)	Decimal		4	1	0	999.9	
SI-29	Electric dyno target coefficient A	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.	n/a	n/a	0	1 per CT Supplemental Information	N(6,3)	Decimal		6	3	-999.999	999.999	
SI-30	Electric dyno target coefficient B	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.	n/a	n/a	0	1 per CT Supplemental Information	N(6,5)	Decimal		6	5	-9.99999	9.99999	
SI-31	Electric dyno target coefficient C	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.	n/a	n/a	0	1 per CT Supplemental Information	N(7,6)	Decimal		7	6	-9.999999	9.999999	_
SI-32	Electric dyno set coefficient A	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.	n/a	n/a	0	1 per CT Supplemental Information	N(6,3)	Decimal		6	3	-999.999	999.999	
SI-33	Electric dyno set coefficient B	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.	n/a	n/a	0	1 per CT Supplemental Information	N(6,5)	Decimal		7	6	-9.999999	9.999999	
SI-34	Electric dyno set coefficient	The value for this field will be looked-up from the Test Vehicle Information that was previously entered.	n/a	n/a	0	1 per CT Supplemental Information	N(7,6)	Decimal		7	6	-9.999999	9.999999	
01.05		The value for this field will be looked-up from the Test Vehicle Information that was previously												
51-35			nva	nva	1	1 per CT Supplemental information	A(1)	Enumeration						-
SI-37	Target Coastdown Time	The 55 mph to 45 mph coastdown time (in seconds) from the track (target) coastdown. This field is optional. If a value is entered, this will trigger the need to conduct a 55-45 mph coastdown.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	TargetCoastDownTimeValu e	0	1 per CT Supplemental Information	N(5,2)	Decimal		5	2	-999.99	999.99	
NEW	Nominal Hybrid Battery	Enter the nominal hybrid battery	SupplementalInf ormationSubmis sion/	NominalHybridBattersMolta										
SI-37.5	Voltage (Volts)	voltage for this test vehicle in volts	ormationDetails	geValue	0	1 per CT Supplemental Information	N(3)	Integer				0	999	_
NEW SI-37.6	Maximum Hybrid Battery Current (amps)	Enter the maximum hybrid battery system current for this test vehicle in amps.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	MaximumHybridBatteryCurr entValue	0	1 per CT Supplemental Information	N(3)	Integer				0	999	_
SI-38	Canister loading?	Select 'Y' = Evaporative emission control canister is loaded with butane or gasoline vapor prior to the start of an emission or fuel economy test or 'N' = No loading required.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails	CanisterLoadingIndicator	1	1 per CT Supplemental Information	A(1)	Enumeration						
		The number of evaporative	SupplementalInf ormationSubmis sion/											
SI-39	Number of canisters	test vehicle.	supplementalInf ormationDetails	TotalCanisterCount	0	1 per CT Supplemental Information	N(2)	Integer				1	18	
2351601 jl+														72 of 3
		Enter the working capacity and										Transportation and Air Quality July 2014		
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SI-40	Cannister Details	Enter the grams of hydrocarbon which are adsorbed and de-sorbed by loading and purging of the canister on this test vehicle.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ CanisterDetails	CanisterWorkingCapacityM easure	0	1n 1 per Canister Number per CT Supplemental Information	N(3)	Integer		0	999			
SI-41	Total canister volume	Enter the total canister volume, in cubic centimeters, of activated carbon in the evaporative emission control canisters for this test vehicle.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ CanisterDetails	TotalCanisterVolumeMeasu re	0	1 per Canister Number per CT Supplemental Information	N(6)	Integer		0	999999			
	Engine Cooling Fan Placement Details	Enter the primary and additional engine cooling fan placement code for each test procedure.				1n								
SI-41.5	Test Procedure Codes Selected For EPA Confirmatory Testing	Enter all applicable test procedure codes that have been selected for EPA confirmatory testing.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ SupplementalTe stProcedureDeta ils	TestProcedureIdentifier	1	1n per CT Supplemental Information	N(2)	Enumeration						
SI-41.6	Number of UDDS/Highway/US06 Bags/Phases Conducted	The number of UDDS/Highway/US06 bags/phases conducted for this test.	5		0	1 per test (Test Procedure = Charge Depleting UDDS, Highway, US06 only)	N(2)	Integer		1	99			
SI-42	Primary engine cooling fan placement code	The numeric code specifying the position of the engine cooling fan during EPA confirmatory testing. A code must be entered for each test procedure.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ SupplementalTe stProcedureDeta ils	PrimaryCoolingFanPlaceme ntldentifier	1	1 per entered Test Procedure per CT Supplemental Information	N(2)	Enumeration						

					11.16	l'It Data Data Data data data data data dat							 	00	
					verny									Once of	July 2014
			Supplementalinf												
			ormationSubmis												
			sion/												
		The numeric code specifying the	SupplementalInf												
		position of the vehicle side cooling	ormationDetails/												
	Additional vehicle cooling	testing A code must be entered	stProcedureDeta	AdditionalCoolingEanPlace		1 per entered Test Procedure per CT									
SI-44	fan placement code	for each test procedure.	ils	mentIdentifier	1	Supplemental Information	N(1)	Enumeration							
	·	·													
		Enter read speed for setup													
		specifications that include the													
		following items and other													
		information as necessary:													
		1. The distance from the vehicle													
		speed fan (between 12" and 35")													
		2. The vertical distance from the													
		floor to the bottom/top of the fan													
		(specify which should be used)													
		3. The horizontal offset from	SupplementalInf												
		fan 3" toward the driver's side)	sion/												
			SupplementalInf												
		This field is required when '20'	ormationDetails/												
	Deed Greed Fee Cotors	(Road Speed Fan) is selected for	SupplementalTe			1 mer entered Test Descedure and CT									
SI-44 5	Specifications	Placement Code (SI-42)	stProcedureDeta	icationsText	0	Supplemental Information	A(1000)	String							
5144.5	Specifications		113		0		A(1000)	Stillig							-
			SupplementalInf												
		The numeric code specifying the	ormationSubmis												
		shift schedule to be used for FPA	SupplementalInf												
		confirmatory testing of this test	ormationDetails/												
		vehicle. Can be either a	SupplementalTe												
01.12		previously-entered manufacturer o	r stProcedureDeta		c .	1 per entered Test Procedure per CT		O 1.1			[A-Z0-				
SI-46	Shift schedule ID	EPA standard shift schedule.	ils	ShiftScheduleIdentifier	0	Supplemental Information	A(4)	String	1	4	9]{1,4}				-
			Cupplomontalist												
			ormationSubmis												
			sion/												
			SupplementalInf												
		The evotors will create a web of f	ormationDetails/												
		"A" for all sets of CT Supplemental	EPAGeneratedS	ShiftScheduleDatabaseCod		1 ner entered Test Procedure per CT									
SI-47	Shift schedule database code	Information.	mationDetails	e	1	Supplemental Information	A(1)	Strina							
		1			-	The second secon			1					1	-

			SupplementalInf		Verify L	ight-Duty Data Requirements								Office of	Transportation and Air Quality
			ormationSubmis												July 2014
		Enter the numeric code energifying	SiOn/												
		the shift schedule to be used for	ormationDetails/												
		the pre-conditioning drive cycle	SupplementalTe												
		during EPA confirmatory testing of	stProcedureDeta	ShiftSchedulePreparationId		1 per entered Test Procedure per CT									
SI-49	Shift schedule ID (for prep)	this test vehicle.	ils	entifier	0	Supplemental Information	A(4)	String	1	4		_	_		
		Enter E10 Measurement Method to													
		be used for Running Loss and	SupplementalInfor												
		2-Day/3-Day Hot Soak + Diurnal	mationSubmission												
		tests). Method must agree with all	/ SupplementalInfor												
		Evaporative tests used for the tested	mationDetails/												
SL 40 5	E10 Evaporative Test	Evaporative Family.	SupplementalTest ProcedureDetails	E10EvaporativeTestMeasurem	0	1 per entered Test Procedure per CT	۸(7)	String							
31-43.3	measurement method		TroccureDetails	chartenouldentiner		Supplemental mormation	A (7)	String				_			-
			SupplementalInfor												
			mationSubmission												
			SupplementalInfor												
	Drive Cycle Speed Tolerance	Select the applicable value for Drive	mationDetails/ SupplementalTest	DriveCycleSpeedToleranceCrit		1 per entered Test Procedure per CT									
SI-49.7	Criteria	Cycle Speed Tolerance Criteria.	ProcedureDetails	erialdentifier	1	Supplemental Information	A(8)	String							
		The value for this field will be	SupplementalInf												
		looked-up from the Test Vehicle	sion/												
		Information that was previously	SupplementalInf												
		entered. The vehicle odometer	ormationDetails/												
		distance units for this test vehicle. M = miles; K = kilometers	EPAGeneratedS												
SI-50	Vehicle odometer unit		mationDetails	OdometerUnitsCode	1	1 per CT Supplemental Information	A(1)	Enumeration							
			SupplementalInf												
		The value for this field will be	ormationSubmis												
		Information that was previously	SupplementalInf												
		entered. The multiplicative	ormationDetails/												
		numeric adjustment factor used in	EPAGeneratedS												
SI-51	venicle odometer correction	miles on this test vehicle	upplementalinfor mationDetails	CorrectionEactorValue	1	1 per CT Supplemental Information	N(5.4)	Decimal			5	1			
5151	lactor		maionDetails		-		14(3,4)	Decimar							
		The value for this field will be	SupplementalInf												
		looked-up from the Test Vehicle	ormationSubmis												
		Information that was previously	sion/												
		odometer correction sign is used to	ormationDetails/												
		adjust the fuel economy of a test	EPAGeneratedS												
CL 52	Odometer Correction sign	vehicle if the vehicle has over 6200	upplementalInfor	CorrectionCignIdentifier	1	1 per CT Supplemental Information	A(1)	Enumeration							
31-52	(+/-)	system miles.	malionDelaiis	CorrectionSigniteentiner	L	I per CT Supplemental Information	A(1)	Enumeration				-			-
		The distance between the parallel													
		centerlines of the front and rear													
		axle of this test vehicle. This is	SupplementalInf												
		rear roll spacing for testing four	sion/												
		wheel drive vehicles on a chassis	SupplementalInf												
SI-53	Wheel base	dynamometer.	ormationDetails	WheelBaseMeasure	1	1 per CT Supplemental Information	N(3)	Integer		├───┼			0	999	-
			SupplementalInf												
		The wheel base units for the wheel	ormationSubmis												
		base distance provided above for	sion/												
SI-54	Wheel base unit	cm' = centimeters.	ormationDetails	WheelBaseUnitsIdentifier	1	1 per CT Supplemental Information	A(2)	Enumeration							
			- ·		-										1
			SupplementalInf												
			sion/												
	Test Vehicle Information		SupplementalInf												
SI-55	Comments	Manufacturer defined.	ormationDetails	TestVehicleCommentText	0	1 per CT Supplemental Information	A(1000)	String	1	1000					-
	Exhaust Emissions Standard	and Cert Levels entered for each	Certification Re	gion											1

					Verify	light-Duty Data Requirements						Office of	Transportation and Air Quality
SI-55.5	Test Group	The test group that was entered on the original Confirmatory Test Decision Information (DI-7) will be picked up by Verify on the back- end.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EPAGeneratedS upplementalInfor mationDetails/ EPAGeneratedE xhaustEmission CertificationLevel Details	TestGroupName	1	1 per CT Supplemental Information	A(12)	String	12	12			July 2014
SI-56	Certification Region Code	Select the applicable certification region codes for this exhaust standard.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission sStandardDetails	CertificationRegionCode	1	1 per combination of Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1n	A(2)	Enumeration					
SI-90	Certification/In-Use Code	Verify will assign a default value of "C" (Certification) for all Supplemental Information standards.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ Exhaustemission sStandardDetails	CertificationInUseCode	1	1 per combination of Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1n	A(2)	Enumeration					
SL91	Vehicle Class	Select the applicable vehicle class for this exhaust standard.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission SStandardDetails/	VehicleClassIdentifier	1	1 per combination of Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1n	A(4)	Enumeration					

					Verify	light-Duty Data Requirements					Office of	Transportation and Air Quality
SI-57A	Exhaust Emission Standard Level	Select the applicable standard level for this exhaust standard.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission SStandardDetails	ExhaustEmissionsStandard Levelldentifier	1	1 per combination of Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1n	A(5)	Enumeration				Julý 2014
SI-57A	Exhaust Emission Standard Level (cont.)											

										Transportation and Air Quality
										July 2014
	Exhaust Emission Standard									
SI-57A	Level (cont.)									
					1 per combination of Test Group + Certification Region Code +					
			SupplementalInf		Certification/InUse Code + Vehicle Class +					
			sion/		Test Procedure + Useful Life + Emission					
			ormationDetails/		standard/DF info.					
SI-56.5	Fuel	Select the applicable fuel for this exhaust standard.	ExhaustEmission sStandardDetails FuelIdentifier	1	1n	A(3)	Enumeration			
					1 per combination of Test Group + Certification Region Code +					
			SupplementalInf ormationSubmis		Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel +					
			sion/ SupplementalInf		Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust					
		Enter the applicable test procedure	ormationDetails/ e ExhaustEmission		standard/DF info.					
SI-92	Test Procedure	for this exhaust emission standard	d. sStandardDetails TestProcedureIdenti	fier 1	1n	N(2)	Enumeration			

					Verify	Light-Duty Data Requirements						Office of	f Transportation and Air Quality
		Select the applicable useful life	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission			1 per combination of Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info.							July 2014
SI-60	Useful Life Mileage	mileage for this exhaust standard.	sStandardDetails	UsefulLifeMileageIdentifier	1	1n	N(3)	Enumeration					-
		Select the applicable emission	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission			1 per combination of Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info.							
SI-59	Emission Standard Value	This is a system-generated numeric field based on converting the text value entered by the manufacturer for "Emission Standard Value (Text)" (SI-62).	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EPAGeneratedS upplementalInfor mationDetails/ EPAGeneratedE xhaustEmission CertificationLevel Details	EmissionStandardValue	1	11 for each unique set of exhaust standard/DF info.	N(7,4)	Decimal	7	4	0	999.9999	
SI-62	Emission Standard Value (Text)	Enter the applicable numeric value for this exhaust standard name including any additional digits that are necessary for proper rounding.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission sStandardDetails	ExhaustEmissionsStandard ValueText	1	11 for each unique set of exhaust standard/DF info.	A(8)	Numeric string	([0-9] {1,3} [\.][0- 9] ([\.][0- 9] {1,4})] ([(\.][0- 9] {1,3} [\.]?)				
SI-58	Exhaust Deterioration Factor Type	Select the applicable deterioration factor type for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission sStandardDetails	DeteriorationFactorTypeIde ntifier	1	11 for each unique set of exhaust standard/DF info.	A(4)	Enumeration					

				Verify	light-Duty Data Requirements								Office of	Transportation and Air Quality
SI-58.5	Using NMOG/NMHC Ratio?	If this is an NMOG standard, is the NMOG/NMHC ratio being used?	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission NMOGToNMHCRatioIndica sStandardDetails tor	0	11 for each unique set of exhaust standard/DF info.	A(1)	Enumeration							July 201-
SI-58.6	Ratio of NMOG/NMHC	If applicable, enter the value for the NMOG/NMHC ratio for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission SStandardDetails NMOGToNMHCRatioValue	0	11 for each unique set of exhaust standard/DF info.	N(7,6)	Decimal			3	2	0.00	9.99	
SI-63	Additive DF	If applicable, enter the additive deterioriation factor (DF) value for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission AdditiveDeteriorationFactor sStandardDetails Value	0	11 for each unique set of exhaust standard/DF info.	N(7,6)	Decimal			7	6	0	9.999999	
SI-64	Multiplicative DF	If applicable, enter the multiplicative deterioriation factor (DF) value for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmissionMultiplicativeDeteriorationF sStandardDetails_actorValue	0	11 for each unique set of exhaust standard/DF info.	N(4,3)	Decimal			4	3	1	9.999	
SI-93	Upward Diesel Adjustment Factor	If applicable, enter the upward diesel adjustment factor value for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmissionUpwardDieseIAdjustmentFa sStandardDetails_ctorValue	0	11 for each unique set of exhaust standard/DF info.	N(7,6)	Decimal			7	6	-9.999999	9.999999	
SI-94	Downward Diesel Adjustmen Factor	If applicable, enter the downward t diesel adjustment factor value for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission DownwardDieselAdjustment sStandardDetails FactorValue	0	11 for each unique set of exhaust standard/DF info.	N(7,6)	Decimal			7	6	-9.999999	9.999999	
SI-65	Reactivity Factor (RAF)	If applicable, enter the reactivity factor for this exhaust standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ ExhaustEmission SStandardDetails ReactivityFactorValue	0	11 for each unique set of exhaust standard/DF info.	N(5)	Integer					0	99,999	
SI-67	Exhaust/Evaporative Emission Standard Comments	Enter any additional comments for the exhaust or evaporative standards for this test vehicle.	SupplementalInf ormationSubmis sion/ SupplementalInf EmissionsStandardComme ormationDetails nText	0	1 per test vehicle configuration	A(1000)	String	1 1	000					
	Evaporative and Refueiting El	inssion standards and Cert Level	a Entered For Each Certified Region Code											
SL95	Evaporative/Refueling Family Name	The evaporative/refueling family that was entered on the original Confirmatory Test Decision Information (DI-8) will be picked up by Verify on the back-end	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EPAGeneratedS upplementalInfor mationDetails/ EPAGeneratedE vaporativeEmissi onCertificationLe EvaporativeRefuelingFamily velDetails Name	0	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.	A(12)	String	12	12					

					Verify	light-Duty Data Requirements				Office of	Transportation and Air Quality
SI-96	Certification Region Code	Select the applicable certification region codes for this evaporative standard.	SupplementalInt ormationSubmis sion/ SupplementalInt ormationDetails. EvaporativeEmis sionStandardDet tails	CertificationRegionCode	0	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0.n	A(2)	Enumeration			July 2014
SI-97	Certification/In-Use Code	Verify will assign a default value of "C" (Certification) for all Supplemental Information standards.	SupplementalIni ormationSubmis sion/ SupplementalIni ormationDetails, EvaporativeEmis sionsStandardDe tails	CertificationInUseCode	0	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0.n	A(2)	Enumeration			
SI-57B	Evaporative/Refueling Standard Level	Select the applicable standard level for this evaporative standard.	Supplementallmi ormationSubmis sion/ Supplementallmi ormationDetails, EvaporativeEmis sionsStandardDe tails	EvaporativeEmissionsStand ardLevelldentifier	0	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0n	A(4)	Enumeration			
SI-80	Fuel	Select the applicable fuel for this evaporative standard.	SupplementalIni ormationSubmis sion/ SupplementalIni ormationDetails. EvaporativeEmis sionsStandardDa tails	Fuelldentifier	0	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0.n	A(3)	Enumeration			

					Verify	light-Duty Data Requirements			Office of	Transportation and Air Quality
					Verify	light-Duty Data Requirements			Office of	Transportation and Air Quality July 2014
SI-98	Test Procedure	Enter the applicable test procedure for this evaporative emission standard.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EvaporativeEmis sionsStandardDe tails	TestProcedureIdentifier	1	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.	N(2)	Enumeration		
5190		Select the applicable useful life	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EvaporativeEmis sionsStandardDe	restriceeureidentiner	I	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.	14(2)	Linumeration		
SI-72	Useful Life Mileage	standard.	tails	UsefulLifeMileageIdentifier	TRUE	0n	N(3)	Enumeration		
		Select the applicable emission	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EvaporativeEmis			Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evan standard/DE info				
SI-71	Test Result/Emission Name	name for this evaporative standard.	sionsStandardDe tails	TestResultIdentifier	TRUE	0n	A(16)	Enumeration		

				Verify	light-Duty Data Requirements								Office of	Transportation and Air Quality
SI-74	Evaporative Emission Standard Value	This is a system-generated numeric field based on converting the text value entered by the manufacturer for "Evaporative Emission Standard Value (Text)" (SI-75).	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EPAGeneratedS upplementalInfor mationDetails/ EPAGeneratedE vaporativeEmissi onCertificationLe EvaporativeEmissionsStand velDetails ardValue	1	11 for each unique set of evap standard/DF info.	N(7,4)	Decimal			7	4	0.0000	999.9999	July 2014
SI-75	Evaporative Emission Standard Value (Text)	Enter the applicable numeric value for this evaporative standard name including any additional digits that are necessary for proper rounding.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EvaporativeEmis sionsStandardDe EvaporativeEmissionsStand tails ardValueText	1	11 for each unique set of evap standard/DF info.	A(8)	String	1	([0-9] {1,3} [\.][0- 9] {1,4})] ([\.][0- 9] {1,4}] ([0-9] {1,4}] ([0-9] {1,3} {1,3} {1,3} {1,3}					-
SI-73	Evaporative Deterioration Factor Type	Select the applicable deterioration factor type for this evaporative standard.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EvaporativeEmis sionSStandardDe DeteriorationFactorTypeIde tails ntifier	TRUE	11 for each unique set of evap standard/DF info.	A(4)	Enumeration							
SI-76	Additive DF	Enter the additive deterioriation factor (DF) value for this evaporative standard name.	SupplementalInf ormationSubmis sion/ SupplementalInf ormationDetails/ EvaporativeEmis sionSStandardDe AdditiveDeteriorationFactor tails Value	0	11 for each unique set of evap standard/DF info.	N(7,6)	Decimal			7	6	0	9.999999	

Verify Light-Duty Data Requirements

					Collection		
Allowed Values	Industry	Process	Notes/Questions	Originator	Point	Collection Type	Applicable Business Rules
Look-up Values							
N = New dataset C = Correction of existing Verify dataset	Light-Duty	Confirmatory Test		Manufacturer	Front End	XML	
							LD-CFT-SI-
							BRU04a
							LD-CFT-SI-BR005
				CDX From			LD-CFT-SI-BR011
	Light Duty	Confirmatory Test		Users Info	Front End	XML	LD-CFT-SI-BR013
							LD-CFT-SI-BR001a
							LD-CFT- SI-BR001b
							LD-CFT-SI-
							BRUU4a
	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	LD-CFT-SI-BR0040 LD-CFT-SI-BR012
				Manufacturer		AME	
							LD-CFT-SI-BR001a
							LD-CF1- SI-BR001b
							LD-CFT-SI-
							DRUU4a
	Light Duty	Confirmatory Tect	F a "01"	Manufacturor	Front End	YMI	LD-CFT-SI-BR012
		Commutely rest	<u>р. у.</u>	Manufactulei		AWIL	LD-CFT-SI- BR004a
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR012 LD-CFT-SI-BR013
	Light Duty	Confirmatory Test	VI-29	Verify	Back End	Pre Existing Data	

			Verify Light-Duty D	ata Requirement	5		
	Light Duty	Confirmatory Test	200 <= WEIGHT <= 14,000	Manufacturer	Front End	XML	
	Light Duty	Confirmatory Test	200 <= WEIGHT <= 14,000	Manufacturer	Front End	XML	
Look-Up Values: 4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P= Part-time 4-wheel drive							
A = All wheel drive	Light Duty	Confirmatory Test	VI-13	Verify	Back End	Pre Existing Data	
Look-Up Values: L = Left-hand side B = Right-hand side	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	
			NI 22				
	Light Duty	Confirmatory Test	XX.XXX in Liters	Verify	Back End	Pre Existing Data	
Look-Up Values: 1 = Otto Spark 2 = Stratified Charge 3 = Diesel 4 = Gas Turbine 5 = Rankine 6 = Stirling 7 = Hybrid 8 = Fuel Cell 00 = Othere		Confirmation Test		Manufacture	Front Find		
		Communatory Test	VI-30	Manufacturer	FIONL ENU	AML	
	Light Duty	Confirmatory Test	check range between 00000 <= WEIGHT <= 14000	Verify	Back End	Pre Existing Data	
P = Pounds	Light Duty	Confirmatory Test	Assigned default value = "P"	Verify	Back End	Assigned	
1 = Sedan	Light Duty	Confirmatory Test	Assigned default value = "1"	Verify	Back End	Assigned	
1 - Cart Emission Data	Light Duty	Confirmatory Test	Assigned default value = "1"	Vorify	Back End	Assigned	
I - Cert Linission Data		Comminatory rest		veniy	DACK ENU	Assigned	
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	

			Verify Light-Duty D	ata Requirement	5		
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	
	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	
		Commutory rest		Manufacturer	T IONE ENd	AWE	
Look-Up Values:							
N = No	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR002
0 - C4 MANUAL 4-SPEED(CREEPER)							
2 - MA MANUAL 3-SPEED(NO CREEPER) 3 - MM MANUAL 3-SPEED(NO CREEPER) 3 - MM MANUAL 4-SPEED(NO CREEPER) 4 - MS MANUAL 4-SPEED(NO CREEPER)							
5 - SA SEMI-AUTOMATIC 6 - A3 AUTOMATIC 3-SPEED (I/O LOCKUP) 7 - 12 AUTOMATIC 3-SPEED (I/O C/KUP)							
9 - L4 AUTOMATIC 4-SPEED (LOCKUP) 9 - L4 AUTOMATIC 4-SPEED (LOCKUP)							
10 - C5 MANUAL 5-SPEED(CREEPER) 12 - C3 MANUAL 3-SPEED (CREEPER) 15 - SAASE CALL AND A SPEED CREEPER)							
16 - SA3 SEMI-AUTOMATIC 2-SPEED 17 - SA4 SEMI-AUTOMATIC 3-SPEED 17 - SA4 SEMI-AUTOMATIC 4-SPEED							
18 - SA5 SEMI-AUTOMATIC 5-SPEED 20 - M6 MANUAL 6-SPEED (NO CREEPER)							
22 - AS AUTOMATIC 5-SPEED (NO LOCKUP) 22 - LS AUTOMATIC 5-SPEED (LOCKUP) 23 - C6 MANUAL 6-SPEED(CREEPER)							
24 - A6 AUTOMATIC 6-SPEED(NO LOCKUP) 25 - SA6 SEMI-AUTOMATIC 6-SPEED							
26 - L6 AUTOMATIC 6-SPEED (LOCKUP) 27 - L7 AUTOMATIC 7-SPEED (LOCKUP) 28 - SA2 FEMLALTOMATIC 7-SPEED							
29 - A7 AUTOMATIC 7-SPEED 29 - A7 AUTOMATIC 7-SPEED(NO LOCKUP) 30 - M7 MANUAL 7-SPEED(NO CREEPER)							
31 - C7 MANUAL 7-SPEED(CREEPER) 32 - L8 AUTOMATIC 8-SPEED (LOCKUP)							
133 - SA8 SEMI-AUTOMATIC 8-SPEED 34 - A8 AUTOMATIC 8-SPEED(NO LOCKUP) 35 - M8 MANIJAI 8-SPEED(NO CREEPER)							
36 - C8 MANUAL 8-SPEED (CREEPER) 37 - M MANUAL <3 OR >8-SPEED							
40 - CA CVT/Automatic 1-SPEED (NO CREEPER) 51 - AM2 AUTOMATIC-MANUAL 2-SPEED 52 - AM3 AUTOMATIC-MANUAL 3-SPEED							
53 - AMA AUTOMATIC-MANUAL 4-SPEED 54 - AM5 AUTOMATIC-MANUAL 5-SPEED							
55 - AM6 AUTOMATIC-MANUAL 6-SPEED 56 - AM7 AUTOMATIC-MANUAL 7-SPEED 57 - AM8 AUTOMATIC-MANUAL 8-SPEED							
58 - AM AUTOMATIC-MANUAL <2 OR >8-SPEED 99 - OTHER	Light Duty	Confirmatory Test	VI-36, VI-38, VI-39, VI-40	Verify	Back End	Pre Existing Data	
'01' = Emission Data Vehicle (EDV) '31' = Fuel Economy	Light Duty	Confirmatory Test	DI-25.1	Verify	Back End	Pre Existing Data	
	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	I D.CET.SI.BP017
		Commatoly 1851		prianulaciulei			
ICI = gallone							
U - gaions	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR017

14100 Oxfeesty het Nuelear for 10 X8. 14100 Oxfeesty het V-31 Vety fak for Per Laing Date 14100 Oxfeesty het V-31 Vety fak for Per Laing Date 14100 Oxfeesty het V-31 Vety fak for Per Laing Date 14100 Oxfeesty het V-31 Vety fak for Per Laing Date 14100 Oxfeesty het V-32 Vety fak for Per Laing Date 14100 Oxfeesty het V-33 Vety fak for Per Laing Date 14100 Oxfeesty het V-33 Vety fak for Per Laing Date 14100 Oxfeesty het V-33 Vety fak for Per Laing Date 14100 Oxfeesty het V-33 Vety fak for Per Laing Date 14100 Oxfeesty het V-34 Vety fak for Per Laing Date 14100 Oxfeesty het V-34 Vety fak for Per Laing Date 14100 Oxfeesty het V-34 Vety fak for Per Laing Date 14100 Oxfeesty het V-34 Vety fak for Vet in thet 14100 Oxfeesty h				verify Light-Duty Data Requirements				
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International Control		Light Duty	Confirmatory Test	VI-41	Verify	Back End	Pre Existing Data	
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² - Depublic Sittled y Schedulo. Light Daty Confirmatory Test Vi-14 Verity Back End Pre Existing Data Light Daty Confirmatory Test Manufacturer Front End XML	'2' = equipped, not shifted by SIL;							
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1 = One Small Fan - Up - Front 2 = One Small Fan - Down - Front 3 = One Small Fan - Down - Rear 4 = One Small Fan - Down - Rear 5 = One Large Fan - Up - Front (USO6 Only) 6 = One Large Fan - Down - Front (USO6 Only) 8 = One Large Fan - Down - Rear (USO6 Only) 9 = Other (see MFR's instructions) 10 = None 20 = Road Speed Fan (width 31.5" x height 24")	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	

			Verify Light-Duty Da	ta Requirement:	5		
0 None (default) 1 One Small Fan - Down - Passenger Side 2 One Small Fan - Down - Driver Side 3 One Small Fan - Up - Rear 4 One Small Fan - Up - Rear 5 One Large Fan - Up - Front (USO6 Only) 6 One Large Fan - Down - Front (USO6 Only) 7 One Large Fan - Up - Rear (USO6 Only) 8 One Large Fan - Down - Rear (USO6 Only) 9 One Large Fan - Down - Rear (USO6 Only)							
9 Other (see MFR's instructions)	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	
			*** Send to Lab via STARDATA table NEW BR: If Primary Engine Cooling Fan Placement Code (SI-42) equals '20' (Road Speed Fan) then Road Speed				
	Light-Duty	Confirmatory Test	Fan Setup Specifications (SI-44.5) is required.	Manufacturer	Front End	XML	LD-CFT-SI-BR033
Valid Manufacturer Shift Schedule ID $\rightarrow or$ ·· Standard EPA Shift Schedule ID: FTA = FTP (Automatic) FT3 = FTP (Manual 4-speed) FT3 = FTP (Manual 4-speed) FT5 = FTP (Manual 5-speed) FT6 = FTP (Manual 6-speed) HWA = Highway FE (Manual 4-speed) HWA = Highway FE (Manual 4-speed) HW4 = Highway FE (Manual 4-speed) HW4 = Highway FE (Manual 4-speed) HW5 = Highway FE (Manual 6-speed) HW6 = Highway FE (Manual 6-speed) US6A = US06 (Automatic) SC3A = SC03 (Automatic) SC3A = SC03 (Automatic) 0001 = FTP (FT3) 0002 = FTP (FT4) 0005 = FTP (FT4) 0005 = FTP (FT5) 0004 = FTP (FT5) 0004 = HWFE (HW4) 0009 = HWFE (HW4) 0009 = HWFE (HW4) 0011 = HWFE (HW6) 0011 = HWFE (HWS) 0013 = SCC#1 (SCCA)	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR005 LD-CFT-SI-BR016
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CA = California + CAA Section 177 states							
FA = Federal	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018
C = Certification	Light Duty	Confirmatory Test	Assign a default value = "C"	Verify	Front End	Assigned	LD-CFT-SI-BR014 LD-CFT-SI-BR018
For Federal or California Certification Region Codes: LDV - LDV/Passenger Car LDT1 - LDT1 (LVW-3750, GVW 0-6000), LDT2 - LDT2 (LVW 3751-5750, GVW 0-6000), LDVT - LDV and LDT1							
For Federal Certification Region Code: LDT3 - LDT3 (ALWW 3751-5750, LVW 0-3750, GVW > 6000), LDT4 (ALWW > 5750, LVW 0-3750, GVW > 6000), MDPV - MDPV (Federal Tier 2, GVWR 8501-10000), HDV1 - HDV1 (Federal HD chassis Class 2b GVW 8501-10000), HDV2 - HDV2 (Federal HD chassis Class 3 GVW 10001-14000)							
For California Certification Region Code: M6 - MDV6 (Cal. LEV 2/3 MDV GVW 8501-10000), M7 - MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018 LD-CFT-SI-BR025

B1 = Federal Tier 2 Bin 1 B2 = Federal Tier 2 Bin 2 B3 = Federal Tier 2 Bin 3 B4 = Federal Tier 2 Bin 4 B5 = Federal Tier 2 Bin 5 B6 = Federal Tier 2 Bin 6 B7 = Federal Tier 2 Bin 7 B8 = Federal Tier 2 Bin 7 B8 = Federal Tier 2 Bin 7 B9 = Federal Tier 2 Bin 9 B10 = Federal Tier 2 Bin 10 B11 = Federal Tier 2 Bin 11 HDV1 = HDV1 (Federal HD chassis Class 2b GVW 8501-10000) HDV2 = HDV2 (Federal HD chassis Class 3 GVW 10001-14000) L2 = California LEV-II LEV L2OP = California LEV-II LEV Optional U2 = California LEV-II ULEV S2 = California LEV-II ULEV S2 = California LEV-II SULEV PZ = California LEV-II SUZEV PZ = California LEV-II SUZEV			Verify Light-Duty Dat	a Requirement:	5		LD-CFT-SI-BR018
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR024 LD-CFT-SI-BR034 LD-CFT-SI-BR035
L2LEV160 - California LEV-II LEV160 L2ULEV125 - California LEV-II ULEV125 L2SULEV30 - California LEV-II ULEV300 L2LEV395 - California LEV-II ULEV300 L2LEV395 - California LEV-II ULEV340 L2LEV570 - California LEV-II ULEV570 L3LEV160 - California LEV-III ULEV160 L3ULEV120 - California LEV-III ULEV70 L3ULEV10 - California LEV-III ULEV70 L3ULEV20 - California LEV-III ULEV70 L3ULEV30 - California LEV-III ULEV20 L3ULEV30 - California LEV-III ULEV20 L3ULEV30 - California LEV-III ULEV20 L3ULEV200 - California LEV-III ULEV200 L3ULEV200 - California LEV-III ULEV200 C3ULEV200 - California LEV-III ULEV200 L3ULEV200 - California LEV-III ULEV200 L3ULEV200 - California LEV-III ULEV200 C3ULEV200 - California LEV-III ULEV200							

T3B160 - Federal Tier 3 Bin 160 T3B125 - Federal Tier 3 Bin 125 T3B110 - Federal Tier 3 Transitional Bin 110 T3B85 - Federal Tier 3 Transitional Bin 85 T3SULEV30 - Federal Tier 3 Transitional LEV-II SULEV30 Carryover T3B70 - Federal Tier 3 Bin 70 T3B50 - Federal Tier 3 Bin 50 T3B20 - Federal Tier 3 Bin 20 T3B20 - Federal Tier 3 Bin 20 T3B20 - Federal Tier 3 Bin 0 HDV2B35 - Federal Tier 3 HD Class 2b Transitional Bin 395 HDV2B340 - Federal Tier 3 HD Class 2b Bin 250 HDV2B50 - Federal Tier 3 HD Class 2b Bin 170 HDV2B150 - Federal Tier 3 HD Class 2b Bin 170 HDV2B150 - Federal Tier 3 HD Class 2b Bin 150 HDV2B60 - Federal Tier 3 HD Class 2 Bin 150 HDV2B60 - Federal Tier 3 HD Class 3 Bin 150 HDV3B60 - Federal Tier 3 HD Class 3 Bin 150 HDV3B60 - Federal Tier 3 HD Class 3 Bin 200 HDV3B70 - Federal Tier 3 HD Class 3 Bin 200 HDV3B400 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B20 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 200 HDV3B0 - Federal Tier 3 HD Class 3 Bin 2			NEW Business Rule : 'T3B110', 'T3B85' and 'T3SULEV30' are not allowed for Model Year (SI-3.5) 2020 and later. NEW Business Rule : 'HDV2B395', 'HDV2B340', 'HDV3B570' are not allowed for Model Year (SI-3.5) 2022 and later.				
G - Gasoline D - Diesel M - Methanol E - Ethanol CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquified Natural Gas H - Hydrogen EL - Electricity E - CVS 74 ND LATER GWO CAN LOAD	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018 LD-CFT-SI-IB001a
3 = HWFE (HIGHWAY TÉST) 9 = HW780 (60 MPH HIGHWAY TÉST) 10 = IOLE CO 11 = COLD CO 15 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 3 DAY EXH (BUTANE LOAD) 23 = FED FUEL 3 DAY EXH (BUTANE LOAD) 34 = FED FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 41 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 43 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 52 = FED FUEL LOAN EXH(HEAT TO LOAD) 51 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = FED FUEL SONE (F) EXHAUST TEST 53 = CA FUEL 50 DEG(F) EXHAUST TEST 54 = EXAP CARB FUEL ONLY (RIG) TEST 56 = EVAP CARB FUEL ONLY (RIG) TEST 56 = LEAX TEST - PORT NEAR CANISTER 58 = LEAX TEST - PORT NEAR CANISTER 58 = LEAX TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = LEAX TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = LEAX TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = CLAPE CO 2 SPID IDLE (FAS ONLY) 51 = CAT REST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = CLAPE CO 2 SPID IDLE (FAS ONLY) 51 = CAT REST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 57 = CAT (LIG TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 57 = CAT (LIG TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = LEAX TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = LEAX TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 56 = CLAPE DEPIELING ACC ONTROLS 58 = Charge DEPIELING ACC ONTROLS 58 = Charge DEPIELING ACC ONTROLS 59 = LEAX TEST - EVAP GAS CAP 77 = CST TWO SPEED IDLE TEST 50 = LEAX TEST - EV	Light-Duty	Confirmatory Test		Manufacturer	Front end	YMI	ID-CET-SI-RP018

1 = 4,000 miles 50 = 50,000 miles 100 = 100,000 miles 120 = 120,000 miles			Verify Light-Duty Dat	a kequirement	5		
L50 = 150,000 miles	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018
IC-TOTAL (Total Hydrocarbon) IC-TOTAL -EQUIV (Total Hydrocarbon equivalent - Evap only) OC (Carbon Monoxide) D22 (Carbon Dioxide) D22 (Carbon Dioxide) D22 (Carbon Dioxide) D22 (Carbon Dioxide) D22 (Carbon Dioxide) MC (Norpen Charland Exhaust Emissions) D24 (Norpen Charland Exhaust Emissions) D25 (Norpen Charland Exhaust Emissions) D26 (Norpen Charland Exhaust Emissions) D27 (Norpen Charland Exhaust Emissions) D27 (Carbon Monoxide) MC COM (Normethane Hydrocarbon equivalent) MMCG (Organic material Hydrocarbon equivalent) MMCG (Organic material Hydrocarbon equivalent) MMCG (Organic material Hydrocarbon equivalent) MMCG (Organic material Hydrocarbon equivalent) MCG (Normethane Organic gasses (Califorma)) UC-NMHVAC (CMP (SFTP Composite Normethane Hydrocarbon Hy	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018 LD-CFT-SI-BR028 LD-CFT-SI-BR028 LD-CFT-SI-BR022 LD-CFT-SI-BR022 LD-CFT-SI-BR022
SYULI (Weraje System Volage)							
	Light Duty	Confirmatory Test		Verify	Back End	Assigned	LD-CFT-SI-BR018
	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018
MFRA = Mfr. Assigned EPAA = EPA Assigned MFRD = Mfr. Determined AGED = Aned components installed in the emission data							
vehicle	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR018
							25 G. 1 GI DI 010

			Verify Light-Duty Dat	a Requirement	5		
Y = Yes N = No	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	LD-CET-SI-BR018
	Light Duty	Commutery rest		Manalaotarei	THOM: End	AME	
	Light Duty	Confirmatory Test		Manufacturor	Front End	YMI	
	Light Duty	commutory rest		Manufacturer	T TOTIL ETIC	XIVIL	
	Light Duty	Confirmatory Test		Manufacturer	Front End	XMI	I D-CET-SI-BP018
	Light Duty	Commutory rest		Manufacturer		XIIIL	
	Light Duty	Confirmatory Test		Manufacturor	Front End	YMI	
		Commatory rest		Manufacturer	FIOILEIIU	AIVIL	LD-CF1-SI-BR010
	Light Duty	Confirmatory Toot		Monufacturar	Front End	VM	LD-CFT-SI-BR008
		Commatory Test		Manufacturer	FIONLENU	AIVIL	LD-CFT-SI-BR018
	Light Duty	Confirmation / Tost		Manufacturor	Front End	YMI	LD-CFT-SI-BR009
		Commatory rest		Manufacturer	FIOILEIIU	AIVIL	LD-CF1-SI-BR010
			use for NMOG, Methane.				
			Note: for Tier 2 (Bin 1-11) emissions it				
	Light Duty	Confirmatory Toot	will be defaulted to 1.0 for NMOG and	Monufacturar	Front End	VM	
		Commatory rest		Manufacturer	FIOILEIIU	AIVIL	LD-CF1-SI-BR010
	Light Duty	Confirmatory Test	Data type exists	Manufacturer	Front End	XML	LD-CFT-SI-BR018
							SI-BR19
			The evaporative/refueling family name				
			should be pulled in from the				
			Information stored on the back-end				
	Light Duty	Confirmatory Test	(DI-8)	Verify	Back End	Assigned	LD-CFT-SI-BR019

			Verify Light-Duty Dat	a Requirements	5		
CA=California + CAA Section 177 states; FA=Federal	Light Duty	Confirmatory Test	Need to assign a new data element number and insert in schema since SI-56 is for the exhaust standards, not evap.	Manufacturer	Front End	XML	LD-CFT-SI-BR019
C = Certification	Light Duty	Confirmatory Test	Assign a default value = "C"	Verify	Front End	Assigned	LD-CFT-SI-BR015 LD-CFT-SI-BR019
T1 - Federal Tier 1 Evap T2 - Federal Tier 2 Evap T3 - Federal Tier 3 Evap T3-3Z - Federal Tier 3 LEV-III Zero Evap (Option 1) Carryover F2 - Federal LEV-II Evap C2 - California LEV-II Evap Z2 - California LEV-III Zero Evap 3Z = California LEV-III Zero Evap 3Z = California LEV-III Zero Evap (Option 1) 4Z = California LEV-III Zero Evap (Option 2) HD-2D = Federal Heavy-Duty 2-Day Evap (1.75 grams) HD-3D = Federal Heavy-Duty 3-Day Evap (1.4 grams) OT = Other	Light Duty	Confirmatory Test	Note- T1 previously called ENHA in CFEIS NEW Business Rule : 'T3-32' is not allowed for Model Year (SI-3.5) 2022 and later.	Manufacturer	Front End	XML	LD-CFT-SI-BR019 LD-CFT-SI-BR036
G - Gasoline D - Diesel M - Methanol E - Ethanol CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquified Natural Gas H - Hydrogen EL - Electricity	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR019

2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWFE (HIGHWAY TEST) 9 = HWW30 (80 MPH HIGHWAY TEST) 10 = IDLE CO 11 = COLD CO 15 = SPITBACK TEST 16 = Hot 1435 L492 21 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL REFUEL (ORVR) (BUTANE) 25 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 34 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 37 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 38 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 37 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 37 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 38 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 41 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 42 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 44 = FED FUEL 2 DAY EVAP (HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP (HEAT TO LOAD) 47 = CA FUEL 2 DAY EVAP (HEAT TO LOAD) 47 = CA FUEL 2 DAY EVAP (HEAT TO LOAD) 47 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = FED FUEL 50 DEG(F) EXHAUST TEST 54 = EVAP CANSTER BLEED TEST 55 = CAPICEL SO FUEL SYSTEM OBD 67 = LEAX TEST - FOAP FUEL SYSTEM OBD 67 = CART FUEL 2 DAY EVAP (HEAY TO LOAD) 48 = FOAP CANSTER BLEED TEST 59 = FOAP CANSTER BLEED TEST 50 = CAT - ANTONATIC AC CONTROLS 50 = LEAX TEST - FOAP FUEL SYSTEM OBD 67 = CAT PRECID 2 SPOI DIE TEST 50 = CAT - ANTONATIC AC CONTROLS 51 = CAT - FOAP FUEL SYSTEM OBD 52 = CAT = CAT PRECID SYSTEM OBD 53 = CAT = CAT PRECID SYSTEM OBD 54 = CAT = CAT PRECID SYSTEM OBD 55 = CAT = CAT PRECID SYSTEM OBD 56 = LEAX TEST - FOAP FUEL SYSTEM OBD 57 = LEAX TEST - FOAP FUEL SYSTEM OBD 58 = CAT = CAT PRECID SYSTEM OBD 59 = LEAX TEST - FOAP FUEL SYSTEM OBD 50			Verify Light-Duty Da	ta Requirement			
95 = SC03 96 = US06 Bag 2 Only	Linkt Duty	Confirmation Test			Energy and	XI.II	
4 = 4,000 miles 50 = 50,000 miles 100 = 100,000 miles 120 = 120,000 miles 150 = 150,000 miles	Light Duty	Confirmatory Test		Manufacturer	Front End	XML	LD-CFT-SI-BR019
HC-TOTAL (Total Hydrocarbon) HC-TOTAL (Cotal Hydrocarbon equivalent - Evap only) CC (Carbon Monoxide) CC (Carbon Menoxide) CC (Carbon Menoxide) PM (Particulate Matter) PM (Particulate Matter) PM (Charbinate Matter) PM (Charbinate Matter) PM (Charbinate Matter) PM (Charbinate Matter) PM (Charbinate Matter) PM (Charbinate Grance ages (Carbonnia) HC (CMHC) (Corpanic material Hydrocarbon equivalent) OMMCH (Corpanic material Hydrocarbon equivalent) OMMCH (Corponic material Hydrocarbon equivalent) OMMCH (Oxon methane Organic Gases Rus Nitrogen Oxides) CO COMP (STP Composite Non-methane Organic Gases Plus Nitrogen Oxides) NMCG+NOX. (Oxon methane Organic Gases Plus Nitrogen Oxides) PE BAG 1 (Bag 1 Fuel Economy) FE BAG 2 (Bag 2 Carbon Dioxide) CC 2B BAG 2 (Bag 2 Carbon Dioxide) METHANE (CMH (Methane) METHANE (CH4 (Methane) METHANE (CH4 (Methane) DT-WRR (Drive Trace Interita Work Ratio Rating) DT-WRR (Drive Trace Interita Work Ratio Rating) DT-WRR (Drive Trace Interita Work Ratio Rating) DT-WRR (Drive Trace Absolute (Pace Comm) DT-WRR (Drive Trace Interita Work Ratio Rating) DT-WRR (Drive Trace Interita Work Ratio Rating) DT-WRR (Drive Trace Absolute (Pace Comm) DT-WRR (Drive			CREE and Opt-CREE are not valid				LD-CFT-SI-BR019 LD-CFT-SI-BR021 LD-CFT-SI-BR029
ENU-SOC (System End State of Charge Wat-hours) ACT-DISTANCE (Actual Distance Driven (miles)) AS-VOLT (Average System Voltage)	Light Duty	Confirmatory Test	will not be submitted for them.	Manufacturer	Front End	XML	LD-CFT-SI-BR023 LD-CFT-SI-IB003b

			Verify Light-Duty I	Data Reguirement	\$		
						Assigned	
	Light Duty	Confirmatory Test		Verify	Back End	-	LD-CFT-SI-BR019
		· ·					
					Front		
	Light Duty	Confirmatory Test		Manufactuor	End	YMI	
	Light Duty	Committatory Test		Manufactuer	LIIU	AWIL	ED-CFT-SI-BR019
MFRA = Mtr. Assigned							
EPAA = EPA Assigned							
MFRD = Mfr. Determined							
AGED = Aged components installed in the emission data							
venicie	Linkt Dut :	Confirmation Tool				VAA	
	Light Duty	Commatory Test		Manufacturer	FIONLENU	AIVIL	LD-CF1-SI-BR019
			Note- Evaporative DFs are only				
	Light Duty	Confirmatory Test	additive, not multiplicative.	Manufacturer	Front End	XML	LD-CFT-SI-BR019

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date 2014-September-26

FPA Data element							Basic Data	Data Type		Max		Total	Fractional		Max			
number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Type	Description	Min Length	Length	Pattern	Digits	Digits	Min Value	Value	Allowed Values	Industry	Process
Carline Information																		
CL-0.5	Process Code	Select the desired process code for the current submission.	CarlineSubmiss ion/ CarlineInformati onDetails	InformationProcessCo de	1		A(1)	Enumeration	1	1						N = New dataset C = Correction of existing Verify dataset	Light-Duty	Certification
CL-1	Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	CarlineSubmiss ion/ CarlineInformati onDetails	EPAManufacturerCod		L	A(3)	Fixed string	3	3	[A-Z0-9]{3}						Light Duty	Certification
			onDetailo				, (0)	l ixed stillig			[/ 20 0][0]						Light Duty	Certineation
CL-2	Model Year	Enter the applicable model year for this test group.	CarlineSubmiss ion/ CarlineInformati onDetails	ModelYear	1	L	N(4)	Integer						1957	2100		Light Duty	Certification
0.2	Division Code	Enter the applicable	CarlineSubmiss ion/ CarlineInformati	ManufacturerDivisionC			N(2)	Integer						1	00		Light Duty	Cortification
CL-3	Division Code		UIDetails	oue			IN(Z)	Integer						1	99			Certification
CL-4	Car Line Code	Enter the applicable carline code (assigned by the manufacturer) for this carline.	CarlineSubmiss ion/ CarlineInformati onDetails	CarlineCode		L	N(3)	Integer						1	999		Light Duty	Certification
							1.17										<u> </u>	
	FE Label Carline Class	Enter the applicable class code for this carline using EPA's FE Label	CarlineSubmiss ion/ CarlineInformati													1 = Two-Seaters 2 = Minicompact Cars 3 = Subcompact Cars 4 = Compact Cars 5 = Midisize Cars 6 = Large Cars 7 = Smail Station Wagons 9 = Large Station Wagons 9 = Large Station Wagons 10 = Smail Pickup Trucks 2WD 11 = Smail Pickup Trucks 2WD 12 = Standard Pickup Trucks 4WD 13 = Standard Pickup Trucks 4WD 14 = Vans, Cargo Type 15 = Vans, Passenger Type 17 = Special Purpose Vehicle 2WD 18 = Special Purpose Vehicle 2WD 19 = Special Purpose Vehicle Cab Chassis 20 = Minivan 2WD 21 = Minivan 4WD 22 = SUV 2WD 23 = SUV 4WD 24 = Electric Vehicles 30 = Small SUV 4WD 31 = Small SUV 4WD 32 = Standard SUV 2WD		
CL-5	Code	classifications.	onDetails	CarlineClassCode	1	L	N(2)	Enumeration			1	1	1		1	33 = Standard SUV 4WD	Light Duty	Certification

			CarlineSubmiss			Verify Light-Dut	y Data Requirements								Office of Trar	sportation and Air Quality
		Entor the full carline name	ion/			Normalized										July 2014
CL-6	Full Carline Name	for this carline.	onDetails FullCarlineName	1	A(32)	string	1	32							Light Duty	Certification
CL-8	Domestic/Import Code	Select the applicable domestic/import code for this carline.	CarlineSubmiss ion/ CarlineInformati onDetails DomesticImportCode	1	A(1)	Enumeration								D=Domestic I = Import	Light Duty	Certification
			CarlineSubmiss ion/ CarlineInformati													
		Enter the average passenger volume for this	onDetails/ VehicleVolume AveragePassengerVol													
CL-9	Average Passenger Volume	e carline (in cubic feet).	MeasureDetails umeMeasure	0	N(6,3)	Decimal				6	3	0	999.999		Light Duty	Certification
CL-10	Average Luggage Volume	Enter the average luggage volume (in cubic feet).	CarlineSubmiss ion/ CarlineInformati onDetails/ VehicleVolume MeasureDetails meMeasure	0	N(5,3)	Decimal				5	3	0	99.999		Light Duty	Certification
			CarlineSubmiss													
CL-11	2-Door Passenger volume	Enter the 2-door passenge volume (in cubic feet).	ion/ CarlineInformati onDetails/ rr VehicleVolume MeasureDetails lumeMeasure	0	N(3)	Integer						0	200		Light Duty	Certification
CL-12	2-Door Luqqaqe volume	Enter the 2-door luggage volume (in cubic feet).	CarlineSubmiss ion/ CarlineInformati onDetails/ VehicleVolume MeasureDetails meMeasure	0	N(2)	Integer						0	60		Light Duty	Certification
CI -13	4-Door Passenger volume	Enter the 4-door passenge	CarlineSubmiss ion/ CarlineInformati onDetails/ rr VehicleVolume MeasureDetails olumeMeasure	0	N(3)	Integer						0	200		Light Duty	Certification
CL-14	4-Door Luggage volume	Enter the 4-door luggage	CarlineSubmiss ion/ CarlineInformati onDetails/ VehicleVolume MeasureDetails meMeasure	0	N(2)	Integer						0	60		Light Duty	Certification
CL-15	Hatchback Passenger volume	Enter the hatchback passenger volume (in cubic feet).	CarlineSubmiss ion/ CarlineInformati onDetails/ c VehicleVolume HatchbackPassengerV MeasureDetails olumeMeasure	0	N(3)	Integer						0	200		Light Duty	Certification
CI -16	Hatchhack Luggage volume	Enter the hatchback luggage volume (in cubic	CarlineSubmiss ion/ CarlineInformati onDetails/ VehicleVolume HatchbackLuggagerVo MeasureDetails lumeMassure	0	NI(2)	Integer						0	60		Light Duby	Cartification
01-10		e poor.	Inicasui e Details jui liemeasui e	<u>Ч</u>	(<i>ک</i>) « ا	Integer		1	1			U	00	1		Continuation

							Verify Light-Dut	/ Data Requirements				Office of Tran	sportation and A	ir Quality
			CarlineSubmiss											July 2014
		Select the applicable sales	ion/											1
		restriction code for this	CarlineInformati							۲ I	R=US Territories			1
CL-17	Sales Restriction Code	carline.	onDetails	SalesRestrictionCode	0	A(2)	Enumeration			F	'O=US Postal Service	Light Duty	Certification	1

Notes/Questions	Originator	Collection Point	Collection Type	Applicable Business Rules
	Manufacturer	Front End	XML	
	Manufacturer	Front End	XML	LD-CERT-CL-BR001 LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR009 LD-CERT-CL-BR010 LD-CERT-CL-BR012
	Manufacturer	Front End	XML	LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR004 LD-CERT-CL-BR012
	Manufacturer	Front End	XML	LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR003 LD-CERT-CL-BR004 LD-CERT-CL-BR012
	Manufacturer	Front End	XML	LD-CERT-CL-BR002a LD-CERT-CL-BR002b LD-CERT-CL-BR004 LD-CERT-CL-BR011 LD-CERT-CL-BR012
	Manufacturer	Front End	XML	LD-CERT-CL-BR022 LD-CERT-CL-BR023 LD-CERT-CL-BR024 LD-CERT-CL-BR025 LD-CERT-CL-IB001 LD-FE-GL-BR137 LD-FE-GL-BR149

Manufacturer	Front End	ХМІ	
manaraotaror	T TOTAL E.H.d	7.002	
Manufacturer	Front End	XML	
Manufacturer	Front End	XMI	LD-CERT-CL-BR005 LD-CERT-CL-BR013 LD-CERT-CL-BR014 LD-CERT-CL-BR015 LD-CERT-CL-BR016 LD-CERT-CL-BR017 LD-CERT-CL-BR018 LD-CERT-CL-BR019 LD-CERT-CL-BR020
mandiaotaroi	T TOTIL ETIG	7.002	
Manufacturer	Front End	XML	LD-CERT-CL-BR005 LD-CERT-CL-BR013 LD-CERT-CL-BR014 LD-CERT-CL-BR015 LD-CERT-CL-BR016 LD-CERT-CL-BR017 LD-CERT-CL-BR018 LD-CERT-CL-BR019 LD-CERT-CL-BR020
Manufacturer	Front End	XML	LD-CERT-CL-BR021
 Manufacturer	Front End	XML	LD-CERT-CL-BR021
Manufacturer	Front End	XML	LD-CERT-CL-BR021
Manufacturer	Front End	XML	LD-CERT-CL-BR021
			LD-CERT-CL-BR021
Manufacturer	Front End	XML	LD-CERT-CL-BR026
Manufacturer	Front End	XML	LD-CERT-CL-BR021 LD-CERT-CL-BR026

Manufacturer	Front End	XML	

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date 2014-September-26

EPA Data Element Number Long Name Description Parent's Name XML Tag Required Mu Evaporative Family Information Select the desired process code for the EvaporativeFamilySubmission InformationProcess InformationProcess InformationProcess InformationProcess	Aultiplicity	A(1) E	Data Type Description	Min Ma Length Leng	h Pattern	Total Digits	Fractiona I Digits	Min Value	Max Value	Allowed Values	Industry
Evaporative Family Information Evaporative Family Submission Select the desired process code for the EvaporativeFamilySubmission	A	A(1) E	numeration								
Select the desired process code for the EvaporativeFamilySubmission	A	A(1) E	numeration								-
EV-0.5 Process Code current submission. Details Code 1	Ince per			1 1						N = New dataset C = Correction of existing Verify dataset D = Delete existing Verify dataset R = Request Report for an existing Verify dataset	Light-Duty
EV-19 Manufacturer Code The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account EvaporativeFamilySubmission EvaporativeFamilyInformation Details EPAManufacturerC ode Onc EPAManufacturerC 1	mily. A	A(3) Si	tring	3 3	[A-Z0-9]{3	}					Light Duty
EV-1 Evap/Refueling Family Name Enter the applicable evaporative/refueling family Name EvaporativeFamilySubmission / EvaporativeFamilyInformation gFamilyName EvaporativeRefuelin gFamilyName	A	A(12) Fi	ixed string	12 12	[A-HJ-NPR TV-Y1-9]{1 [A-Z0-9]{4}[0 9]{4}[A-Z0-9 {3}	-]					Light Duty
EvaporativeFamilySubmission FV-1 5 Model Year evaporative family Details ModelYear 1 fam	nce per vaporative	N(4) (1	ear type					1957	2100		Light Duty
Evaporative Summary EV-2.2 Information (EVSI) Type EVAPORATIVE Summary EVAPORATIVE Summary EVAPORATIVE Summary Change EVAPORATIVE Summary Change EVAPORATIVE Summary Change EVAPORATIVE Summary Change EVAPORATIVE Summary Summa	anny. N	A(1) E	numeration					1937	2100	N= New, U= Update for correction B= Undate for Running change	Light Duty
EV-3 Integrated ORVR Stranger EVagOrative/refueling family integrated by the evaporative system? Evaporative/ramilySubmission (Evaporative/refueling family integrated Details IntegratedORVR IntegratedORVR	A	A(1) E	numeration							Y = Yes N = No	Light Duty
EV-3.5 Fuel(s) Enter all applicable fuels for this test vehicle configuration. EvaporativeFamilySubmission / EvaporativeFamilyInformation Details FuelIdentifier 1	1n per Evaporative Family A	A(3) I	Enumeration							G - Gasoline D - Diesel M - Methanol E - Ethanol CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity HYD - Hydraulic	Light-Duty
EV-3.6 Separate or Together	1 per test	A(8)	Enumeration							S - Fuels Stored Separately T - Fuels Stored Together	Light-Duty
EV-6 Bladder fuel tank? a bladder?	A	A(1) E	numeration							Y = Yes N = No	Light Duty
Event Enter the applicable material for the fuel tank for this evaporative/refueling family. EvaporativeFamilySubmission Choose 'Other' if both metal and plastic are used, or, some other material or / EvaporativeFamilyInformation EV-7 Fuel tank Material composite is used. Details/FuelTankDetails ntifier 1	A	A(2) E	numeration							M = Metal P = Plastic OT = Other	Light Duty
EV-8 Fuel Tank Material description Enter a description of the fuel tank. Details/FuelTankDetails herText 0	A	A(100) Si	lormalized	1 100							Light Dutv

			EvanorativeEamilySubmission		Verify Light-Du	ity Data Require	ements								Office of Transportation and Air Qualit
EV-9	Fill Pipe Seal Type	Enter the applicable type of fill pipe seal for this evaporative/refueling family.	/ EvaporativeFamilyInformation Details/FuelTankDetails	FillPipeSealTypeIde	1		A(1)	Enumeration						L = Liquid Seal M = Mechanical Seal	Light Duty
			EvaporativeFamilySubmission												
EV-10	Air Intake System Vapor Storage Device	Do vehicles in this evaporative/refueling family have an air intake system vapor storage device?	/ EvaporativeFamilyInformation Details/VaporStorageDetails	AirIntakeSystemDev iceIndicator	/ 1		A(1)	Enumeration						Y = Yes N = No	Light Duty
			EvaporativeFamilySubmission												
EV-10.5	Air Intake System Vapor Storage Device Description	Describe the airtake system vaport storage device	/ EvaporativeFamilyInformation Details/VaporStorageDetails	AirIntakeSystemDev iceDescriptionText	0		A(100)	String	1	100					Light Duty
	Fuel System Vapor Storage	Do vehicles in this evaporative/refueling family have a fuel system vapor storage	EvaporativeFamilySubmission / EvaporativeFamilyInformation	VaporStorageCanist	t									Y = Yes	
EV-11	Canister	canister?	Details/VaporStorageDetails	erIndicator	1		A(1)	Enumeration					_	N = No	Light Duty
		Enter a description of other vapor storage devices for this evaporative/refueling	EvaporativeFamilySubmission / EvaporativeFamilyInformation	VaporStorageCanist	t			Normalized							
EV-12	Other Vapor Storage	family.	Details/VaporStorageDetails	erDescriptionText	0		A(30)	String	1	30					Light Duty
EV-13	Fuel System Vapor Storage Canister(s) Total Working Canacity	Enter the total working capacity (in grams) of all primary and secondary (bleed) canisters for this evaporative/refueling family	EvaporativeFamilySubmission / EvaporativeFamilyInformation Details/VaporStorageDetails	CanisterTotalWorkin	1		N(4)	Integer					0 999	٩	Light Duty
	oupuony		EvaporativeFamilySubmission	goupuoitymeusure				integer					0 000	<u> </u>	Light Buty
EV-14	Number of Primary Canisters	Enter the number of primary canisters for this evaporative/refueling family.	/ EvaporativeFamilyInformation Details/VaporStorageDetails	PrimaryCanisterCou nt	1		N(1)	Integer					0 9	9	Light Duty
		Enter the number of bleed canisters for this evaporative/refueling family. Do not include bleed canisters that are internal to	EvaporativeFamilySubmission / EvaporativeFamilyInformation												
EV-15	Number of Bleed Canisters	primary canisters.	Details/VaporStorageDetails	BleedCanisterCount	1		N(1)	Integer					0 9	9	Light Duty
EV-16	Bleed Canister Total Working Capacity	Enter the total working capacity of all bleed canisters (in grams).	EvaporativeFamilySubmission / EvaporativeFamilyInformation 	BleedCanisterTotal WorkingCapacityMe asure	0		N(4)	Integer					0 9999	9	Light Duty
EV-17	Evap/refueling family system comment	Enter any additional coments about this evaporative/refueling family.	/ EvaporativeFamilyInformation Details	ManufacturerComm entText	0		A(1000)	String	1	1000					Light Duty
			EvaporativeFamilySubmission												
EV 20	Look Family Indianter	Do Leak Family requirements (e.g. Tier 3)) EvaporativeFamilyInformation	LookComikuladiootor	. 1	1 per evap	A(1)	Enumeration	1	1				Y = Yes	Light Duty
EV-20		apply to this Evaporative Family?	Details	LeakFamilymuicaloi	1	аттт	A(1)	Enumeration	1	1					
		Enter a unimus 2 about the stains to	EvaporativeFamilySubmission			1									
514.00		identify a specific Leak Family within an	EvaporativeFamilyInformation			Evaporative		O LI É L							
EV-23	Leak Family Identifier	Evaporative Family	Details/Leak-amilyDetails	LeakFamilyIdentifier		Family	A(3)	String	3	3	[A-20-9]{3}				
		The Leak Family Name is the Verify	EvaporativeFamilySubmission												
		system-generated Evaporative Family Name concatenated with the Leak Family	/ EvaporativeFamilyInformation			1n per Evaporative									
EV-24	Leak Family Name	Identifier (separated by a '-' (dash))	Details/LeakFamilyDetails	LeakFamilyName	0	Family	A(16)	String	16	16					Light Duty

																	and Air Qualit
																	July 2014
			EvaporativeFamilySubmission			1 per Leak											
				LeakFamilyRequire		Family									FC = 50 State		
EV-25	Applicability of Leak Family Requirements	Enter the applicable Certification Region for this Leak Family.	EvaporativeFamilyInformation Details/LeakFamilyDetails	dionCode	0	Evap Family	A(2)	Enumeration							CA = California Only FA = Federal Only	Light Duty	
			EvaporativeFamilySubmissior /			1 per Leak Family											
514.00		Enter the Leak Family Standard (effectiv	e EvaporativeFamilyInformation	LeakFamilyStandar		Identifier per		N I I I I I I I I I I									
EV-26	Leak Family Standard	leak diameter in inches).	Details/LeakFamilyDetails	dMeasure	0	Evap Family	N(4,3)	Number			3	3	00	1.999		Light Duty	
			Evenerative Femily Sylpmission														
			/			1 per Leak Family											
EV-27	Leak Family Description	Enter a description for this Leak Eamily	EvaporativeFamilyInformation	LeakFamilyDescripti	i o	Identifier per	A(1000)	String								Light Duty	
	Leak Family Description	Litter a description for this Leak Family.	Details/LeakFailingDetails	UITEXL	0	Lvap ranny	A(1000)	Sung									
			EvanorativeEamilySubmission														
		Do Canister Bleed Test requirements															
EV-21	Canister Bleed Test Indicator	(e.g. Tier 3, LEV-III, etc) apply to this Evaporative Family?	EvaporativeFamilyInformation Details	CanisterBleedTestIn dicator	1	1 per evap family	A(1)	Enumeration	1	1					Y = Yes N = No	Light Duty	
																gy	
			EvaporativeFamilySubmissior	1													
			/ EvanorativeEamilvInformation	CanisterRleedTestA											EC = 50 State		
	Applicability of Evaporative	Enter the applicable Certification Region	Details/	pplicableRegionCod		1 per Evap									CA = California Only		
EV-28	Canister Bleed Emission Test	for this Canister Bleed test.	CanisterBleedTestDetails	e	0	Family	A(2)	Enumeration							FA = Federal Only	Light Duty	
			EvaporativeFamilySubmission	1													
			/ EvaporativeFamilvInformation														
51/ 00	Evaporative Canister Bleed		Details/	CanisterBleedTestC		1 per Evap		0.11									
EV-29	Test Comments	Enter Canister Bleed Test comments.	CanisterBleed LestDetails	ornments l ext	0	Family	A(1000)	String								Light Duty	
			Evenerative Earth Output														
		Do CARB Fuel Only (Rig) Test	∠vaporauve+amilySupmission														
EV 22	CARB Fuel Only (Rig) Test	requirements (e.g. Tier 3, PZEV, LEV-III,	EvaporativeFamilyInformation	CARBFuelOnlyRigT	1	1 per evap	A(1)	Enumeration	1	1					Y = Yes	Light Duty	
	muicatui	ere) apply to this Evaporative Family?	DetailS	connuicatur	1	parmy	A(1)	Linumeration	1	1							

Γ													and Air C
				EvaporativeFamilySubmission									
		Applicability of CARB Fuel	Enter the applicable Certification Region	, EvaporativeFamilyInformation Details/	CARBFuelOnlyRigT estApplicableRegion	1	1 per Evap					FC = 50 State CA = California Only	
	EV-30	Only (Rig) Test	for this CARB Fuel Only (Rig) test.	CARBFuelOnlyRigTestDetails	Code	0	Family	A(2)	Enumeration			FA = Federal Only	Light Duty
				EvaporativeFamilySubmission									
				/ EvaporativeFamilyInformation									
	EV-31	CARB Fuel Only (Rig) Test Comments	Enter the CARB Fuel Only (Rig) test comments.	Details/ CARBFuelOnlyRigTestDetails	CARBFuelOnlyRigT estCommentsText	0	1 per Evap Family	A(1000)	String				Light Duty
							,		Carrig				
			Enter E10 Measurement Method to be used for Running Loss and 2-Day/3-Day										
			Hot Soak + Diurnal emissions only (e.g.									ACTUAL = Actual Total Hydrocarbon Equivalent Measurement (with speciation)	
			for Tier 3/LEVIII tests). Method must	EvaporativeFamilySubmission /	E10EvaporativeTest							CALC = Calculated (1.08 x FID Total	
		E10 Evaporative Test	the tested Evaporative Family.	EvaporativeFamilyInformation	MeasurementMetho		1 per evap					FID-EPA = Actual FID w/o Speciation (EPA	
	EV-32	Measurement Method		Details	dldentifier	0	family	A(7)	Enumeration			Only)	Light Duty
Process	Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules								
-----------------	---	-------------------	---------------------	-----------------	---								
Certification		Manufacturer	Front End	XML									
Certification		Verify	Front End	XML	LD-CERT-EV-BR002 LD-CERT-EV-BR009 LD-CERT-EV-BR011 LD-CERT-EV-BR012								
Certification		Manufacturer	Front End	XML	LD-CERT- EV-BR001b LD-CERT-EV-BR002 LD-CERT-EV-BR005 LD-CERT-EV-BR005 LD-CERT-EV-BR013								
Certification		Manufacturer	Front End	XML	LD-CERT- EV-BR001b LD-CERT-EV-BR005								
O antificantian		Manufacture	Freed Fred	VAII									
Certification		Manufacturer	Front End	XML									
					LD-CERT-EV-BR014								
Certification	The 'HYD' value is not accepted for this dataset.	Manufacturer	Front end	XML	LD-CERT-EV-IB001 VI-BR11								
Certification		Manufacturer	Front end	XML	LD-CERT-EV-BR015								
Certification		Manufacturer	Front End	XML									
Certification		Manufacturer	Front End	XML									
Certification		Manufacturer	Front End	XML	LD-CERT-EV-BR006								

Certification		Manufacturer	Front End	XML	
Certification		Manufacturer	Front End	XML	
Certification		Manufacturer	Front End	XMI	
Certification		Manufacturer		XIVIL	
Certification		Manufacturer	Front End	XML	
Certification		Manufacturer	Front End	XML	
Certification		Manufacturer	Front End	XML	
Certification		Manufacturer	Front End	XML	
		Mar. 6	Environ	NA.	
Certification		Manufacturer	Front End	XML	
Certification		Manufacturer	Front End	XML	LD-CERT-EV-BR008
Certification		Manufacturor	Front End	YMI	
Certification		Manulacturer		XIVIL	
	CSC: This value should be displayed in the Evaporative (Refueling				
Certification	Information section of the CSI.	Manufacturer	Front End	XML	
	If Leak Family Indicator (EV-20) equals 'Y' (Yes)				
Certification	then Leak Family Identifier (EV-23) is required.	Manufacturer	Front End	XML	LD-CERT-EV-BR018
	Create a Leak Family Name when Leak Family Indicator				
	(EV-20) equals 'Y' (Yes).				
	The Verify-created Leak Family Name should be				
	displayed in the Evaporative/Refueling				
	Information section of the CSI.				
Certification		Verify	Back-End	Assigned	

	CSC: This value should be displayed in the Evaporative/Refueling				
	Information section of the CSI.				
	Applicability of Leak Family Requirements (EV-25) is required Not necessary -				
Certification	Covered by XML schema	Manufacturer	Front End	XML	
	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI.				
	I f Leak Family Identifier (EV-23) exists then Leak Family Standard (EV-26) is required Not necessary - Covered by XML schema				
Cortification	The maximum allowed value for Leak Family Standard (EV-26) must be	Manufacturor	Front End	YMI	
Certification	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI	Manufacturer			
Certification		Manufacturer	Front End	XML	
Certification	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI.	Manufacturer	Front End	XMI	
ortanodatori					
	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI.				
Certification	If Canister Bleed Test Indicator (EV-21) equals 'Y' (Yes) then Applicability of Evaporative Canister Bleed Emission Test (EV-28) is required.	Manufacturer	Front End	XML	LD-CERT-EV-BR020
	CSC: This value should be displayed in the Evaporative/Refueling				
Certification	information section of the CSI.	Manufacturer	Front End	XML	
	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI.				
Certification		Manufacturer	Front End	XML	

Verif	/ Light-Duty Data Requi	rements
v Criny	Light Duty Dutu Requ	Ciffentis

	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI.				
	If CARB Fuel Only (Rig) Test Indicator (EV-22) equals 'Y' (Yes) then Applicability of CARB Fuel Only (Rig) Test (EV-				
Certification	30) is required.	Manufacturer	Front End	XML	LD-CERT-EV-BR021
	CSC: This value should be displayed in the Evaporative/Refueling Information section of the CSI.				
Certification		Manufacturer	Front End	XML	
	(TI-24.5)				
	NOTES: This field will also be used for an IUVP Test Info business rule for IT-38.5.				
	CSC: This value (EV-32) should be displayed in the Evaporative/Refueling Information section of the CSI. Even though there could be multiple values, a new BR in TG will limit the value of all of them to be equal at CSI time.				
Certification		Verify	Back-End	Pre-existing	

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Multiplicity

<u>Min</u> Length

Data Type Description

Basic Data Type

<u>Max</u> Length

Pattern

TotalFractionalDigitsDigits

<u>Min Value</u>

Date: 2014-September-26 Tier 3 Update (Release 15.0) Image: Construction of the second of

				- CeruncanonDataSubm											
				ission/									'		
			Select the desired process code for the	CertificationInformatio	InformationProcessC								'		
	TG-0.5	Process Code	current submission.	nDetails	ode	1		A(1)	Enumeration	1	1		'	L	
													'		
													'		
			The 3-character alphanumeric code	CortificationDataSubm									'		
			assigned by EPA to each manufacturer	certificationDataSubin									'		
			This will be derived from user's CDX user	CertificationInformatio	EBAMapufacturorCo								'		
	TG-1	Manufacturer Code	account	nDetails	de	1	Once per test group	A(3)	String	3	3	[A-70-9]{3}	'		
-	.01					-	ence per teet group:	7.(0)				[7:20 0][0]	<u> </u> '		
													'		
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													. '		
												TV-Y1-91/13	. '		
				CertificationDataSubm								[A-Z0-9]	'		
				ission/								{4,11}([\\.]	'		
			Enter the applicable test group name for	CertificationInformatio								[A-Z0-9]	'		
	TG-2	Test Group	this set of certification information.	nDetails	TestGroupName	1	11	A(12)	String	12	12	{1,6})?			
				CertificationDataSubm											
				ISSION/									'		
			Enter the applicable type for this set of	Certificationinformatio									'		
			certification information: New Lindate for	TestGrounIdentificatio	CertificateTypeIdentif								'		
	TG-4	CSI Type	Correction or Undate for Running Change	n Details	ier	1	Once per test group	A(1)	Enumeration				'		
	10 4			CertificationDataSubm		-		7(1)	Entimeration				<u> </u> '	<u> </u>	
				ission/									'		
			When the Update Indicator = "R", enter th	e CertificationInformatio									'		
			running change number or document file	nDetails/									'		
		Running Change Reference	name for the running change that was	TestGroupIdentificatio	RunningChangeRefe								'		
	TG-5	Number	submitted to Verify's document system.	nDetails	renceNumberText	0	Once per test group.	A(100)	Normalized string	1	100		'	<u> </u>	
													'		
													'		
													'		
				CortificationDataSubm									'		
				ission/									'		
			Enter the applicable model year for this	CertificationInformatio					Year type (1970-				'		
	TG-6	Model Year	test group.	nDetails	ModelYear	1	Once per test group.	N(4)	2100)				'		1957
				CertificationDataSubm	1				,						
				ission/									'		
				CertificationInformatio									'		
				nDetails/									'		
			Enter the applicable value for the drive	TestGroupIdentificatio									'		
	TC 71	Duise Courses	source for this test group. Select 'E' for	nDetails/	Duis a Cassara a lala artifica a	1	1. O mark Tant Crown	A (1)	F actorian				'		
	IG-7.1	Drive Source	luei cell electric venicle.	CertificationDataSubm	DriveSourceidentiller	L	12 per Test Group	A(1)	Enumeration				<u> </u>	<u> </u>	
				ission/									'		
				CertificationInformatio									'		
			Are the vehicles in this test group hybrid	nDetails/									'		
			electric vehicles (HEVs) as defined in 40	EPAGeneratedCertific	HybridVehicleIndicat								'		
	TG-7.2	Hybrid Indicator	CFR 86.1803-01?	ationDetails	or	1	1 per Test Group	A(1)	Enumeration						
													'		
													'		
				CertificationDataSubm									'		
				ission/									'		
				CertificationInformatio									'		
				nDetails/									'		
				TestGroupIdentificatio									'		
				nDetails/									'		
			Enter all applicable fuels for this test	DriveSourceDetails/			1n per Drive Source per						1		
	TG-7.3	Fuel(s)	venicle configuration.	⊩uelldentifierDetails	⊢uelldentifier	1	Test Group	A(3)	Enumeration		1	1	1	1	1

					Verify Ligh	t-Duty Data Requirements						Office of	f Transportation and Air Quality
													July 2014
						Once per selected Fuel							
TG-7.4	Basic fuel metering system	Enter the applicable fuel metering system type for this test group.	CertificationDataSubm	PrimaryFuelMetering SystemIdentifier	0	(TG-7.3) per Drive Source (TG-7.1) per test group	A(4)	Enumeration					
		operation and group.	CertificationDataSubm	1	-	(····) po: toor g.cop							
			ission/										
			nDetails/										
		Deep the fuel metering system employ	TestGroupIdentificatio			Once per celected Fuel							
		lean burn strategy (e.g. to significantly	DriveSourceDetails/	LeanBurnStrategyInd		(TG-7.3) per Drive Source							
TG-7.4.1	Lean Burn Strategy Indicator	improve the fuel economy of the vehicle)?	FuelldentifierDetails	icator	0	(TG-7.1) per test group	A(1)	Enumeration					
			CertificationDataSubm										
			CertificationInformatio										
		Enter the CREE weighting factor that has	nDetails/										
		been approved by EPA under 600.510(k)	nDetails/										
TC 7 5	CREE Weighting Factor for	for each fuel for dual/multiple fuel vehicles	GreenhouseGasOffici	W/oightEaster)/alue	0	Once Per Test Group Fuel	N(E 4)	Decimal		_	4	0.0000	
10-7.5			CertificationDataSubm		0	(10-217.1) per test group	N(3,4)	Decimai		5	4	0.0000	
			ission/										
		If multiple fuels are selected for Fuel(s),	nDetails/										
TC-7.6	Multiple Fuel Storage-	are the fuels stored separately or	TestGroupIdentificatio	MultipleFuelStorage	0	1 per test group	٨(٩)	Enumeration					
10-7.0			CertificationDataSubm		0		A(0)	Enumeration					
			ission/										
		If multiple fuels are selected for Fuel(s),	nDetails/										
TC 77	Multiple Fuel Combustion-	are the fuels combusted separately or	TestGroupIdentificatio	MultipleFuelCombust	0	1 por Test Croup	A (9)	Enumoration					
10-7.7			CertificationDataSubm		0		A(0)	Enumeration					
			ission/										
			nDetails/										
TC-7.9	Euel Cell Indicator	Are vehicles within this test group	TestGroupIdentificatio	EuclCollIndicator	0	1 per Test Group	۸(1)	Enumeration					
10-7.0			CertificationDataSubm		0		A(1)	Lituitieration					
			ission/ CertificationInformatio										
		Are vehicles within this test group	nDetails/	RechargeableEnergy									
TC-7.0	Rechargeable Energy Storage	e equipped with a rechargeable energy	TestGroupIdentificatio	StorageSystemIndica	0	1 per Test Group	۸(1)	Enumeration					
10-7.5	System indicator	Storage system:	CertificationDataSubm		0		A(1)	Lituitieration					
		Select "Yes" if vehicles within this test	ISSION/ CertificationInformatio										
		group are equipped with an electric motor	nDetails/										
TG-8 3	Off-board Charge Capable	that is capable of being charged off-board	TestGroupIdentificatio	OffBoardChargeCap	0	1 per Test Group	Δ(1)	Enumeration					
10-0.5			CertificationDataSubm		0		~(1)	Endificitation					
			ission/										
			nDetails/										
			TestGroupIdentificatio										
		Is this test group being certified to Federal	nDetails/ FederalCleanFuelVehi										
TG-9	Federal Clean Fuel Vehicle	Clean Fuel Vehicle emission standards?	cleDetails	CleanFuelIndicator	1	Once per test group.	A(1)	Enumeration					
			CertificationDataSubm										
			CertificationInformatio										
			nDetails/										
			nDetails/										
	Federal Clean Fuel Vehicle	Enter the applicable Clean Fuel Vehicle	FederalCleanFuelVehi	CleanFuelStandardId	-								
TG-10	Standard	Standard for this test group.	cieDetails	entifier	0	Once per test group.	A(4)	Enumeration					

			CertificationDataSubm	1	Verify Ligh	t-Duty Data Requirements								Office	of Transportation and Air Quality
			ission/												July 2014
			Details/												
			TestGroupIdentificatio												
		Is this test group being certified to Federal	nDetails/												
TG-11	Federal Clean Fuel Vehicle	Clean Fuel Vehicle ILEV emission	FederalCleanFuelVehi	InherentlyLowEmissi	0	Once per test group	Δ(1)	Enumeration							
10.11			CertificationDataSubm		0	Once per test group.	7(1)	Endition							-
			ission/												
		Is this test aroun being certified to	nDetails/												
	California Partial Zero	Calfornia's partial zero emissions vehicle	TestGroupIdentificatio	CAPartialZeroEmissi											
TG-11.5	Emissions Vehicle Indicator	(PZEV) standards?	nDetails	onsIndicator	0	Once per test group.	A(1)	Enumeration							-
			ission/												
			CertificationInformatio												
		Enter the applicable durability group name	nDetails/	DurabilityCroupNam											
TG-12	Durability Group Name	for this test group.	nDetails	e	1	Once per test group.	A(12)	String	12	12	[A-Z0-9]{12}				
			CertificationDataSubm	1											
			ISSION/ CertificationInformatio												
			nDetails/												
	Durability Group Equivalency	Enter the applicable durability group	TestGroupIdentificatio	DurabilityGroupEquiv		_									
TG-13	Factor	equivalency factor.	nDetails	alencyFactorValue	1	Once per test group.	N(2,1)	Decimal				2	1	0.1	-
			CertificationInformatio												
			nDetails/												
		Enter all applicable certification region	TestGroupIdentificatio												
		previously referred to as 'Sales Area' in	CertificationRegionDet	CertificationRegionC											
TG-14	Certification Region Code	CFEIS.	ails	ode	1	12	A(2)	Enumeration							
			ission/												
			nDetails/												
			TestGroupIdentificatio												
	Certification Projected Sales	Enter the projected sales for each	nDetails/												
TG-15	for each Certification Region	applicable certification region code for this test group (i.e., EA, $CA+177$)	CertificationRegionDet	CertificationProjected	1	1 2	N(7)	Integer						0	
16-15	Coue		CertificationDataSubm		1	12	N(7)	linegei						0	-
			ission/												
		Enter Ves if this test aroun complies with	CertificationInformatio												
		the HD GHG 2b/3 regulations. Otherwise	TestGroupIdentificatio	HeavyDutyGreenhou											
TG-6.5	HD GHG 2b/3 Indicator	enter No.	nDetails	seGas2bOr3Indicator	1	Once per test group.	A(1)	Enumeration							
			CertificationDataSubm												
			ission/												
			nDetails/												
		Enter all applicable vehicle classes for this	TestGroupIdentificatio	VehicleClassIdentifie											
TG-16	EPA Vehicle Class	test group.	nDetails	r	1	1n	A(4)	Enumeration							
			CertificationDataSubm												
			CertificationInformatio												
			nDetails/												
			TestGroupIdentificatio												
		Enter the applicable OBD Compliance	IIDetalls/	ComplianceTypeIndi											
TG-19	OBD Compliance Type	Type for this test group.	viceDetails	cator	1	Once per test group.	A(1)	Enumeration							
											-	-	-		

			CertificationDataSubm	ו	Verify Lig	ht-Duty Data Requirements						Office	of Transportation and Air Quality
TC 22	OBD Demonstration Vehicle	Enter the test group for the OBD	ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ OnBoardDiagnosticDe	DemonstractionVehic	1	0	4(12)	Obies	10	10	[A-HJ-NPR- TV-Y1-9]{1} [A-Z0-9] {4,11}([\\.] [A-Z0-9]		July 2014
16-20	Test Group	demonstration venicle.	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/		1	Once per test group.	A(12)	Sung	12	12	{1,0})?		-
TG-21	Test Group OBD Compliance Level	Enter the applicable OBD Compliance Level for this test group.	OnBoardDiagnosticDe	ComplianceLevelIde	1	Once per test group.	A(4)	Enumeration					
TG-22	Number of Test Group OBD Deficiencies	Enter the number of approved OBD deficiencies for this test group.	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ OnBoardDiagnosticDe viceDetails	PTestGroupDeficienci esCount	1	Once per test group.	N(2)	Integer				0	
		Provide a brief description of all approved	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ OnBaardDiagnosticDe	n ManufacturerComme									-
TG-23	OBD Deficiencies Comments	deficiencies for this test group.	viceDetails CertificationDataSubm	ntText	0	Once per test group.	A(1000)	String	1	1000			-
TG-24	Reduced Fee Test Group Indicator	Was a reduced fee payment submitted for this test group in accordance with CFR 85.2406?	ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails	ReducedFeeIndicator	1	Once per test group.	A(1)	Enumeration					
TC-25	Test Group Comments	Enter any additional comments about this	CertificationDataSubri ission/ CertificationInformatio nDetails/ TestGroupIdentificatio	ManufacturerComme	0	Once per test group	A(1000)	String	1	1000			
1G-25	Luckrid/Combustion Fusion	test group.	nDetails	ntrext	0	Once per test group.	A(1000)	String		1000			
	Description (Not to be entered when Drive Source (TG-7) = 'E')					01							
		Enter the applicable type of Hybrid system	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng	1									
TG-26	Hybrid Type	for this test group.	ineDescriptionDetails	HybridTypeIdentifier	0	Once per test group.	A(2)	Enumeration					-
TG-27	Hybrid Type Description if Other	Enter a description of the hybrid system fo this test group if "other" is selected for "Hybrid Type".	CertificationDataSubm ission/ CertificationInformatio rnDetails/ HybridCombustionEng ineDescriptionDetails) HybridTypeOtherText	0	Once per test group.	A(100)	String	1	100			-
TG-28	Engine type	Enter the applicable engine type for this test group.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails	j EngineTypeldentifier	0	Once per test group.	A(4)	Enumeration					

				Verify Ligh	t-Duty Data Requirements							Office (of Transportation and Air Quality
			CertificationDataSubm										July 2014
			ISSI01/ CertificationInformatio										1
		Enter a description of the engine for this	nDetails/										1
		test group for gas turbine, rankine, sterling	HybridCombustionEng EngineTypeOtherTex										1
TG-29	Engine Type Description	or "other" engine types.	ineDescriptionDetails t	0	Once per test group.	A(1000)	String	1	1000				1
			CartificationDataSubm										1
			ission/										1
			CertificationInformatio										1
			nDetails/										1
		Enter the applicable engine block	HybridCombustionEng EngineBlockArrange			. (2)							1
IG-30	Engine Block Arrangement	arrangement for this test group.	ineDescriptionDetails mentIdentifier	0	Once per test group.	A(2)	Enumeration	_				ļļ	4
			CertificationDataSubm										1
			ission/										1
			CertificationInformatio										1
	Engine Block Arrangement	Enter a description of the engine block	nDetails/										1
TG-31	Description if Other	selected	ineDescriptionDetails mentOtherText	0	Once per test group	A(500)	String	1	500				1
					ence per teet group:	7.(000)		-				<u> </u>	1
			CertificationDataSubm										1
			ission/										1
			Certificationinformatio										1
		Enter the number of cylinders or rotors for	HybridCombustionEng CylindersOrRotorsCo										1
TG-32	Number of Cylinders/Rotors	this test group.	ineDescriptionDetails unt	0	Once per test group.	N(2)	Integer					0	1
							-						1
			CertificationDataSubm										1
		Do the engines in this test group use	CertificationInformatio										1
		something other than a camshaft to	nDetails/										1
		accuate the intake and exhaust valves?	HybridCombustionEng CamlessValveTrainIn										1
TG-32.5	Camless Valvetrain Indicator		ineDescriptionDetails dicator	0	Once per test group.	A(3)	Enumeration						4
			nDetails/										1
		Enter oil Viscosity and classification	ineDescriptionDetails										1
		recommended for use in summer											1
		(e.g.100deg F ambient temp) for engines											
TC 22.6		(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20	OilViscosityClassifica	0	Once not toot group	A/2E)	String	1	25				
TG-32.6	Oil Viscosity/Classification	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc)	OilViscosityClassifica tionText	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc)	OilViscosityClassifica tionText	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc)	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/ CertificationInformatio	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/ CertificationInformatio nDetails/	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ipaDescriptionDetails/	0	Once per test group.	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfiguration	0	Once per test group. 1n Repeats for each engine	A(25)	String	1	25				
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer.	OilViscosityClassifica tionText HybridCombustionE ngineDescription Image: Comparison of the compar	0	Once per test group. 1n Repeats for each engine configuration (TG-36).	A(25)	String	1	25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer.	OilViscosityClassifica tionText HybridCombustionE ngineDescription OilViscosityClassifica tionText CertificationDataSubm ission/ CertificationDataSubm ission/ CertificationDataSubm ineDescriptionDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfiguration etails EngineConfiguration Number CertificationDataSubm EngineConfiguration EngineConfiguration	0	Once per test group. 1n Repeats for each engine configuration (TG-36).	A(25)	String	1	25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer.	OilViscosityClassifica tionText HybridCombustionE ngineDescription Image: Comparison of the second certificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineConfiguration Number CertificationDataSubm ission/ EngineConfiguration Number	0	Once per test group. 1n Repeats for each engine configuration (TG-36).	A(25)	String Integer	1	25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer.	OilViscosityClassifica tionText HybridCombustionE ngineDescription OilViscosityClassifica tionText CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineConfiguration Number CertificationDataSubm ission/ CertificationInformatio potatile/ EngineConfiguration Number	0	Once per test group. 1n Repeats for each engine configuration (TG-36).	A(25)	String	1	25			1	
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer.	OilViscosityClassifica tionText HybridCombustionE ngineDescription OilViscosityClassifica tionText CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineConfiguration RegineConfiguration Number CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng EngineConfiguration Number	0	Once per test group. 1n Repeats for each engine configuration (TG-36).	A(25)	String Integer		25			1	
TG-32.6	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer.	OilViscosityClassifica tionText HybridCombustionE ngineDescription Internation CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineConfiguration EngineConfiguration EngineConfigurationD EngineConfigurationD EngineConfigurationD etails CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfiguration EngineConfiguration	0	Once per test group. 1n Repeats for each engine configuration (TG-36).	A(25)	String	1	25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) at ion Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine	OilViscosityClassifica tionText HybridCombustionE ngineDescription E CertificationDataSubm ission/ CertificationDataSubm ission/ CertificationInformatio nDetails/ EngineConfiguration Number EngineConfigurationDataSubm ission/ EngineConfiguration Number CertificationDataSubm ission/ EngineConfiguration Number CertificationDataSubm ission/ EngineConfiguration Details/ HybridCombustionEng ineDescriptionDetails/ EngineRatedHorsepo	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine	A(25)	String Integer	1	25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe Engine Rated Horsepower	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower)	OilViscosityClassifica tionText HybridCombustionE ngineDescription Image: Configuration CertificationDataSubm ission/ CertificationInformatio nDetails/ EngineConfiguration EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineConfiguration CertificationInformatio nDetails Number CertificationInformatio nDetails/ Number CertificationInformatio nDetails/ Number HybridCombustionEng ineDescriptionDetails/ EngineRatedHorsepo teails	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	A(25) N(2) N(4)	String String Integer Integer	1	25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe Engine Rated Horsepower	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower)	OilViscosityClassifica tionText HybridCombustionE ngineDescription Interpret Network CertificationDataSubm ission/ EngineConfiguration CertificationDataSubm ineDescriptionDetails/ EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineConfiguration CertificationDataSubm ission/ EngineConfiguration CertificationDataSubm ission/ EngineConfiguration Details/ HybridCombustionEng ineDescriptionDetails/ HybridCombustionEng ineConfigurationD etails EngineRatedHorsepo werValue CertificationDataSubm iscient EngineRatedHorsepo	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	A(25) N(2) N(4)	String String Integer Integer		25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe Engine Rated Horsepower	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine or configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower)	OilViscosityClassifica tionText HybridCombustionE ngineDescription OilViscosityClassifica tionText CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfiguration EngineConfiguration CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfiguration EngineConfiguration CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfiguration EngineRatedHorsepo werValue CertificationDataSubm ission/ CertificationDataSubm ission/ EngineRatedHorsepo	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	A(25) N(2) N(4)	String Integer Integer Integer		25			1	
TG-32.6 TG-36 TG-37	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe Engine Rated Horsepower	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower)	OilViscosityClassifica tionText HybridCombustionE ngineDescription OilViscosityClassifica tionText CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineConfiguration RegineConfiguration CertificationInformatio nDetails/ CertificationDataSubm ission/ CertificationDetails/ EngineConfigurationD etails EngineRatedHorsepo werValue CertificationInformatio nDetails/ CertificationInformatio ission/ CertificationInformatio nDetails/ EngineRatedHorsepo werValue	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	A(25) N(2) N(4)	String String Integer Integer		25			1	
TG-32.6 TG-36 TG-37	Oil Viscosity/Classification Engine Configuration Informa Engine Configuration Numbe Engine Rated Horsepower	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower)	OilViscosityClassifica tionText HybridCombustionE ngineDescription ItonText CertificationDataSubm ission/ CertificationDataSubm ission/ CertificationInformatio nDetails/ EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineConfiguration CertificationInformatio nDetails EngineConfiguration CertificationInformatio nDetails/ EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineRatedHorsepo werValue CertificationInformatio nDetails/ EngineRatedHorsepo werValue CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ HybridCombustionEng ission/ EngineRatedHorsepo werValue	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	A(25)	String String Integer Integer Integer		25			1	
TG-32.6 	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower)	OilViscosityClassifica tionText HybridCombustionE ngineDescription Internation CertificationDataSubm ission/ CertificationDetails/ CertificationDetails/ EngineConfigurationD etails EngineConfiguration EngineConfiguration CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD EngineConfigurationD EngineConfigurationD etails EngineRatedHorsepo werValue CertificationDataSubm ission/ CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ InformationD EngineConfigurationD EngineConfigu	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	A(25)	String Integer Integer		25			1	
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TG-32.6 	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower Engine Displacement (liters)	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine or configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower) Enter the engine displacement for this engine configuration. (In Liters)	OilViscosityClassifica tionText HybridCombustionE ngineDescription OilViscosityClassifica tionText CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineConfiguration Number CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineRatedHorsepo werValue CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineRatedHorsepo werValue CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails EngineDisplacement Value CertificationDataSubm ission/ CertificationDataSubm ission/ EngineDisplacement Value	0	Once per test group. 1n Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	N(2) N(2) N(4)	String String Integer Integer Decimal		25	5	3	1	
TG-32.6 TG-36 TG-37 TG-38	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower Engine Displacement (liters)	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine err configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower) Enter the engine displacement for this engine configuration. (In Liters)	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/ CertificationDotaSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD EngineC	0	Once per test group. In Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36). Repeats for each engine configuration (TG-36).	N(2) N(4) N(5.3)	String String Integer Integer Decimal		25	5	3	1	
TG-32.6 TG-36 TG-37 TG-37	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower Engine Displacement (liters)	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower) Enter the engine displacement for this engine configuration. (In Liters)	OilViscosityClassifica tionText HybridCombustionE ngineDescription ItonText CertificationDataSubm ission/ CertificationDataSubm ission/ CertificationInformatio nDetails/ EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineConfiguration CertificationInformatio nDetails EngineConfiguration CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineDisplacement Value CertificationDataSubm ission/ EngineDisplacement Value CertificationDataSubm ission/ EngineDisplacement Value	0	Once per test group.	A(25)	String String Integer Integer Decimal		25	5	3	1	
TG-32.6 TG-36 TG-37 TG-37	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower Engine Displacement (liters)	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower) Enter the engine displacement for this engine configuration. (In Liters)	OilViscosityClassifica tionText HybridCombustionE ngineDescription Interference CertificationDataSubm ission/ EngineConfiguration CertificationDetails/ EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineConfiguration CertificationDataSubm ission/ EngineConfiguration CertificationDataSubm ission/ EngineConfiguration CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineConfiguration LengineConfigurationD petails/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineDisplacement Value CertificationDataSubm ission/ EngineDisplacement Value CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ HybridCombustionEng ineDescriptionDetails/ EngineDisplacement Value CertificationInformatio nDetails/ EngineDisplacement Value	0	Once per test group.	A(25)	String String Integer Decimal		25	5	3	1	
TG-32.6 TG-36 TG-37 TG-37	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower Engine Displacement (liters)	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower) Enter the engine displacement for this engine configuration. (In Liters) Does this engine configuration utilize cylinder deactivation technologies? This is sometimes referred to as variable	OilViscosityClassifica tionText HybridCombustionE ngineDescription CertificationDataSubm ission/ CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ HybridCombustionEng ineDescriptionDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/	0	Once per test group.	A(25)	String String Integer Decimal		25	5	3	1	
TG-32.6 TG-36 TG-37 TG-37 TG-38	Oil Viscosity/Classification Engine Configuration Information Engine Configuration Number Engine Rated Horsepower Engine Displacement (liters) Cylinder Deactivation	(e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc) ation Assigned by Verify for each engine er configuration created by the manufacturer. Enter the rated horsepower for this engine configuration. (In horsepower) Enter the engine displacement for this engine configuration. (In Liters) Does this engine configuration utilize cylinder deactivation technologies? This is sometimes referred to as variable displacement.	OilViscosityClassifica tionText HybridCombustionE ngineDescription Intervent State CertificationDataSubm ission/ EngineConfiguration CertificationInformatio nDetails/ EngineConfiguration HybridCombustionEng ineDescriptionDetails/ EngineConfiguration CertificationInformatio nDetails/ Number CertificationInformatio nDetails/ Number CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationDataSubm ission/ EngineRatedHorsepo werValue CertificationInformatio nDetails/ EngineDisplacement Value CertificationInformatio nDetails/ EngineDisplacement Value CertificationInformatio nDetails/ EngineDisplacement Value CertificationInformatio nDetails/ EngineDisplacement Value CertificationInformatio nDetails/ EngineDisplacement Value CertificationInformatio nDetails/ EngineDisplacement Value CertificationInformatio nDetails/ CylinderDeactivationI HybridCombustionEng ission/ CylinderDeactivationI	0	Once per test group.	A(25)	String String Integer Decimal Enumeration		25	5	3	1	

			CertificationDataSubm	Verify Ligh	t-Duty Data Requirements				Office of Tra	nsportation and Air Quality
	Cylinder Deactivation	Enter a description of the cylinder deactivation technology utilized on this	Section Contract of the contra		Repeats for each engine	A/(2000)	Ctring			July 2014
16-40	Description	engine configuration.	etails Description Lext CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/	0	configuration (TG-36).	A(1000)	String	1 1000		
TO 41) (aniah la) (akua Timinu	Does this engine configuration utilize	EngineConfigurationD VariableValveTimingI	0	Repeats for each engine	A (1)				
16-41		variable valve timing technology?	CertificationDataSubm	0	configuration (TG-36).	A(1)	Enumeration			
TG-42	Variable Valve Timing System Description	Enter a description of the variable valve timing technology utilized on this engine configuration.	CertificationInformatio Details/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD VariableValveTiming etails DescriptionText	0	Repeats for each engine configuration (TG-36).	A(1000)	String	1 1000		
IG-43	Variable Valve Lift?	Is this engine configuration equipped with	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD VariableValveLiftIndi cator	0	Repeats for each engine	A(1)	Enumeration			
TG-44	Variable Valve Lift System	Enter a description of the variable valve lift mechanism utilized on this engine configuration	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD VariableValveLiftDes etails	0	Repeats for each engine	A(1000)	String	1 1000		
TG-45	Number of Inlet Valves Per Cylinder	Enter the number of inlet valves per cylinder for this engine configuration. Enter 0 if not applicable.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD InletValvesPerCylind etails erCount	0	Repeats for each engine configuration (TG-36).	N(1)	Integer		0	
TG-46	Number of exhaust Valves Per Cylinder	Enter the number of exhaust valves per cylinder for this engine configuration. Enter 0 if not applicable.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD ExhaustValvesPerCy etails	0	Repeats for each engine configuration (TG-36).	N(1)	Integer		0	
TC 47	Air Aspiration Method	Enter the applicable air aspiration methods	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationDAirAspirationMethodI doutifior	0	Repeats for each engine	۵(2)	Enumeration			
10-47	Number of Air Aspiration	Enter the number of air assiration devices	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD_AirAppirationDepriseC	0	Repeats for each apping	A(2)				
TG-48	Devices	for this engine configuration.	etails	0	configuration (TG-36).	N(2)	Integer		0	
						· · ·				

			CortificationDateCubr		Verify Ligh	t-Duty Data Requirements						Office	of Transportation and Air Quality
			ission/		VCITY LIGHT								July 2014
			Details/										
			HybridCombustionEng										
	Air Aspiration Device	Enter the air aspiration device	EngineConfigurationD	AirAspirationConfigur		Repeats for each engine							
TG-49	Configuration	configuration for this engine configuration.	etails	ationIdentifier	0	configuration (TG-36).	A(2)	Enumeration					
			CertificationDataSubm lission/	ו									
			CertificationInformatio										
			HybridCombustionEng	3									
		Enter a description of the air aspiration	ineDescriptionDetails/	AirAppirationMathod		Depecto for each opging							
TG-50	Air Aspiration Method if Othe	r other is selected.	etails	OtherText	0	configuration (TG-36).	A(30)	String	1	30			
			CertificationDataSubm	ו									
			CertificationInformatio										
			nDetails/										
			ineDescriptionDetails/	9									
TG-51	Charge Air Cooler Type	Enter the applicable charge air cooler type for this engine configuration	 EngineConfigurationD etails 	ChargeAirCoolerIden	0	Repeats for each engine	A(1)	Enumeration					
1001			CertificationDataSubm	1			7.(2)						
			ission/ CertificationInformatio										
			nDetails/										
			HybridCombustionEng ineDescriptionDetails/]									
TO 50	Engine Configuration	Enter any additional comments about this	EngineConfigurationD	ManufacturerComme		Repeats for each engine	4(1000)			1000			
1G-52	Exhaust Emission Control Sv	engine configuration.	etalis	ntiext	0	configuration (1G-36).	A(1000)	String	1	1000			
			ExhaustEmissionCo										
	After Treatment Device Section	on	ntrolSystem										
			CertificationDataSubm lission/	1									
			CertificationInformatio										
			ExhaustEmissionsCon	1									
	Total Number Of After	Enter the total number of after treatment	trolSystemDetails/										
TG-53	Treatment Devices (ATDs)	devices for this test group.	Details	Count	0	Once per test group.	N(2)	Integer				0	
			CertificationDataSubm	ו									
			CertificationInformatio										
			nDetails/ ExhaustEmissionsCon	1									
			trolSystemDetails/										
TG-54	ATD Comments	Enter a description of the after treatment devices for this test group.	AftertreatmentDevices	ManufacturerComme ntText	0	Once per test group.	A(1000)	String	1	1000			
						Repeats the same number							
TC FF	ATD Number	A number assigned by Verify to each after	NA	AftertreatmentDevice	0	of times as the Number of	N(2)	Integer				1	
10-55	ATD Nulliber		Certification lission/		0	ATDS (10-55).	IN(2)	Integer				1	
			CertificationInformatio										
			ExhaustEmissionsCor	1									
			trolSystemDetails/										
			Details/			Repeats the same number							
TC-56		Enter the type of after treatment device for	AftertreatmentDevice	AftertreatmentDevice	0	of times as the Number of	۸(6)	Enumeration					
10-50			eehtheationDataSubm lission/		0		A(0)		1				
			CertificationInformatio										
			nDetails/ ExhaustEmissionsCor	1									
			trolSystemDetails/										
			Details/	•		Repeats the same number							
TO 57	ATD Drasious Matel Tom	Enter the applicable type(s) of precious	AftertreatmentDevice	PreciousMetalTypeId		of times as the Number of	4 (0)	Enumoration					
16-57	ATD Precious Metal Type	inetat(s) for this ATD number.	Details	entiller	U U	AIDS (16-53).	A(2)	Enumeration					

[CertificationDataSubm		Vorter	t Duty Data Bagy			_		,	 	0#	hf Transportation and Air Or I't
TG-58	ATD Precious Metal Type if Other	Enter a description of the type of precious metal for this ATD number if "other" is selected.	ission/ CertificationInformatio nDetails/ ExhaustEmissionsCon trolSystemDetails/ AftertreatmentDevices Details/ AftertreatmentDevice PeterstationDataSubm	PreciousMetalOtherT ext	verity Ligh	Repeats the same number of times as the Number of ATDs (TG-53).	A(50)	String	1	50			Office of	pr Transportation and Air Quality July 2014
TG-59	Substrate Material	Enter the applicable material of the	ission/ CertificationInformatio nDetails/ ExhaustEmissionsCon trolSystemDetails/ AftertreatmentDevices Details/ AftertreatmentDevice Petails.	SubstrateMaterialIde	0	Repeats the same number of times as the Number of ATDs (TG-53)	۵(1)	Enumeration						
TG-60	Substrate Construction	Enter the applicable substrate construction	CertificationDataSubm ission/ CertificationInformatio nDetails/ ExhaustEmissionsCon trolSystemDetails/ AftertreatmentDevices Details/ AftertreatmentDevice Petails:	SubstrateConstructio	0	Repeats the same number of times as the Number of	A(1)	Enumeration						
TC 102	Substrate Construction	Enter a description of the type of precious metal for this ATD number if "other" is	<u>CertificationDataSubm</u> ission/ CertificationInformatio nDetails/ ExhaustEmissionsCon trolSystemDetails/ AftertreatmentDevices Details/ AftertreatmentDevice Details/	SubstrateConstructio	0	Repeats the same number of times as the Number of	A(EQ)	Etring	1	50				
16-102	Sensor Information (Repeats for each Engine Configuration within a Test Group)	selected.	ExhaustEmissionCo ntrolSystem	notheriext	0	ATDS (TG-53).	A(50)	String		50				
TG-61	Number of Air/Fuel Sensors	Enter the number of air/fuel sensors for this engine configuration.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails/ AirEuelSensorsDetails	AirFuelSensorCount	0	Repeats for each engine	N(2)	Integer					0	
TG-62	Air/Fuel Sensor Number	A number assigned by Verify to each Air/Fuel sensor.	NA		0	Repeats the same number of times as the Number of air/fuel sensors (TG-61).	N(2)	Integer					1	
TG-63	Air/Fuel Sensor Type	Enter the applicable type of air/fuel sensor for this air/fuel sensor number.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng/ ineDescriptionDetails/ EngineConfigurationD etails/ AirFuelSensorDetails /AirFuelSensorDetails	AirFuelSensorTypeld entifier	0	Repeats the same number of times as the Number of air/fuel sensors (TG-61).	A(5)	Enumeration						

					Verify Light	Duty Data Requirements						Office	of Transportation and Air Quality
TG-64	Air/Fuel Sensor Type if Other	Enter a description of the air/fuel sensor type if "other" selected for air/fuel sensor type.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails/ AirFuelSensorDetails /AirFuelSensorDetails /AirFuelSensorDetails CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng	AirFuelSensorTypeO therText	0	Duty Data Requirements Repeats the same number of times as the Number of air/fuel sensors (TG-61).	A(30)	String	1	30		Office (of Transportation and Air Quality July 2014
TG-65	Number of Knock Sensors	Enter the number of knock sensors for this engine configuration.	ineDescriptionDetails/ EngineConfigurationD etails/ AirEuelSensorsDetails	KnockSensorCount	0	Repeats for each engine	N(2)	Integer				0	
TG-66	Sensor Comments	Enter any additional description of the air/fuel sensors for this engine configuration	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails/ AirEueISensorsDetails	ManufacturerComme	0	Repeats for each engine	A(1000)	String	1	1000		0	
13-66	Sensor Comments		AIIFuelSelisoisDelaiis	ntrext	0	configuration (18-30).	A(1000)	Sung	1	1000			1
	Other Exhaust Emission Cont	rol	ExhaustEmissionCo ntrolSystem										
		Does this engine configuration utilize	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD	EvhaustGasDecircul		Peneate for each angine							
TG-67	Exhaust Gas Recirculation	exhaust gas recirculation device?	etails	ationIndicator	0	configuration (TG-36).	A(1)	Enumeration					1
	Cooled Exhaust Gas	Does this engine configuration utilize	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD	CooledExhaustGasR		Repeats for each engine							
TG-68	Recirculation	exhaust gas recirculation device?	etails Contification Data Culture	ecirculationIndicator	0	configuration (TG-36).	A(1)	Enumeration					1
		Enter the type of exhaust gas recirculation	LerrificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD	ExhaustGasRecircul		Repeats for each engine							
TG-69	EGR Type	device for this engine configuration.	etails Cortification Date Culture	ationIdentifier	0	contiguration (TG-36).	A(4)	Enumeration					1
TG-70	Exhaust Gas Recirculation Description if Other	Enter a description of the exhaust gas recirculation device for this engine configuration if "other" is selected.	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails	ExhaustGasRecircul ationOtherText	0	Repeats for each engine configuration (TG-36).	A(30)	String	1	30			
TG-71	Closed Loop Air Injection System	Does this engine configuration have a closed-loop air injection system?	CertificationDataSubm ission/ CertificationInformatio nDetails/ HybridCombustionEng ineDescriptionDetails/ EngineConfigurationD etails	ClosedLoopAirInjecti onIndicator	0	Repeats for each engine configuration (TG-36).	A(1)	Enumeration					

			CertificationDataSubm		Verify Li	ght-Duty Data Requirements						Office	of Transportation and Air Quality
			ission/										July 2014
			CertificationInformatio										
			Indetails/										
			ineDescriptionDetails/										
		Enter the applicable type of air injection	EngineConfigurationD			Repeats for each engine							
TG-72	Air Injection Type	system for this engine configuration.	etails	AirInjectionIdentifier	0	configuration (TG-36).	A(4)	Enumeration					
			CertificationDataSubm										
			ission/										
			nDetails/										
			HybridCombustionEng										
		Enter a description of the air injection	ineDescriptionDetails/										
		system for this engine configuration if	EngineConfigurationD			Repeats for each engine							
TG-73	Air Injection if Other	"other" is selected.	etails	AirInjectionOtherText	0	configuration (TG-36).	A(30)	String	1	30			-
			CertificationDataSubm										
			ISSION/										
			nDetails/										
		Enter the applicable type of direct ozone	ExhaustEmissionsCon										
		reduction (DOR) device for this test group.	trolSystemDetails/										
		If equipped with a DOR, must obtain prior	OtherExhaustEmissio										
TG-74	Direct Ozone Reduction	EPA approval before requesting a	nsControiDeviceDetail	DirectOzoneReductio	0	Once per test group	۸(2)	Enumeration					
16-74			5 Cartification Data Culum	IDeviceidentillei	0		A(2)						-
			lission/										
			CertificationInformatio										
			nDetails/										
			ExhaustEmissionsCon										
			trolSystemDetails/										
		Enter a description of the direct ozone	nsControlDeviceDetail	DirectOzoneReductio									
TG-75	DOR Device if Other	reduction if other is selected.	S	nDeviceOtherText	0	Once per test group.	A(30)	String	1	30			
			CertificationDataSubm										-
			ission/										
			CertificationInformatio										
			nDetails/										
			EXNAUSTEMISSIONSCON										
		Enter any additional comments about the	OtherExhaustEmissio										
	Emission Control Device	emission control devices for this test	nsControlDeviceDetail	ManufacturerComme									
TG-76	Comments	group.	S	ntText	0	Once per test group.	A(1000)	String	1	1000			
	Hybrid Electric Vehicle And F	uel Cell Information	CortificationDataCubm										
			certificationDataSubm										
			CertificationInformatio										
			nDetails/	RechargeableEnergy									
	Rechargeable Energy Storage	Enter the applicable type of energy storage	HybridElectricVehicleF	StorageDeviceIdentifi									
TG-77	System	device for this test group.	uelCellDetails	er	0	Once per test group.	A(2)	Enumeration					-
			ission/										
			CertificationInformatio										
		Enter a description of the energy storage	nDetails/	RechargeableEnergy									
TC 79	Rechargeable Energy Storage	device for this test group if "other"	HybridElectricVenicleF	StorageDeviceOther	0	Once per test group	A(20)	String	1	20			
10-78		Selected.	CertificationDataSubm	TEXL	0		A(30)	Sunny	1	30			-
			ission/										
			CertificationInformatio										
			nDetails/										
			HybridElectricVehicleF										
		Enter the applicable type of battery for this	BatterySpecificationsD										
TG-79	Battery Type	test group.	etails	BatteryTypeIdentifier	0	Once per test aroup.	A(4)	Enumeration					
			CertificationDataSubm		v	9.00p.						1	1
			ission/										
			CertificationInformatio										
			InDetails/										
			uelCellDetails/										
		Enter a description of the battery type for	BatterySpecificationsD	BatteryTypeOtherTe									
TG-80	Battery Type if Other	this test group if "other" selected.	etails	xt	0	Once per test group.	A(30)	String	1	30			

			CertificationDataSubm		Verify Ligh	nt-Duty Data Requirements							Office	of Transportation and Air Quality
			ission/											July 2014
			CertificationInformatio											
			nDetails/	-										
		Enter the total number of batteries for this												
	Number of Battery Packs (not	t test group. Does not include starter	BatterySpecificationsE											
TG-81	cells)	batteries.	etails	BatteryCount	0	Once per test group.	N(3)	Integer					0	
			CertificationDataSubm	1]
			ission/											
			CertificationInformatio											
			HybridElectricVehicleF											
		Enter the total voltage of all battery pack(s) uelCellDetails/											
	Total Voltage of Battery	for this test group. Does not include	BatterySpecificationsD	BatteryTotalVoltage										
TG-82	Pack(s)	starter batteries. (in Volts)	etails	Measure	0	Once per test group.	N(3)	Integer					1	4
			CertificationDataSubm	1										
			CertificationInformatio											
			nDetails/											
			HybridElectricVehicleF											
		Enter the battery energy capacity for this	uelCellDetails/	Botton/Enorm/Cono-i										
TG-83	Battery Energy Canacity	hest group. Does not include starter	etails	tvMeasure	0	Once per test group	N(6.2)	Decimal			6	2	0.01	
10-03	Suttery Energy Capacity		CertificationDataSubm	Gincusure	0	once per test group.	۱۷(U, <i>L)</i>	Decima				2	0.01	1
			ission/											
			CertificationInformatio											
			nDetails/											
		Entor the battony enceitie energy for this	HybridElectricVehicleF	-										
		test group Does not include starter	BatterySpecifications	BatterySpecificEnerg										
TG-84	Battery Specific Energy	batteries. (in Whr/kg)	etails	yMeasure	0	Once per test group.	N(5,1)	Decimal			5	1	0.1	
			CertificationDataSubm	1		,	X-7 /							1
			ission/											
			CertificationInformatio											
			IIDetails/											
			uelCellDetails/											
		Enter the applicable type of battery	BatterySpecificationsE	BatteryChargerTypel										
TG-85	Battery Charger Type	charger type for this test group.	etails	dentifier	0	Once per test group.	A(3)	Enumeration						
			CertificationDataSubm	1										
			ission/											
			certificationDataDetail											
			HybridElectricVehicleF	-										
			uelCellDetails/											
		Enter the number of capacitors for this tes	t CapacitorSpecification											
TG-86	Number of Capacitors	group.	sDetails	CapacitorCount	0	Once per test group.	N(2)	Integer					0	-
			CertificationDataSubm	1										
			CertificationInformatio											
			nDetails/											
			HybridElectricVehicleF	-										1
			uelCellDetails/											1
TO 07	Consolter Detine in Fred	Enter the rating of each capacitor number	CapacitorSpecification	CapacitorRatingValu	0	1n (Repeats for the total	N(4.0)	Desimal				2	0.01	
16-87	Capacitor Rating in Farads	(in rarads).	SDetallS Cortification Data Subm	e	U	number of capacitors)	IN(4,2)	Decimai			4	2	0.01	-
			ission/											
			CertificationInformatio											1
			nDetails/											1
			HybridElectricVehicleF											1
			uelCellDetails/	CanaaitarCommo-tT										1
TG-88	Capacitor Comments	canacitor(s) for this test group	s Details		0	Once per test group	A(100)	String	1	100				1
10-00			CertificationDataSubm	1	0			Jung	1	100				1
			ission/											
			CertificationInformatio											
		Enter a description of the hydraulic system	InDetails/											1
TG-89	Hydraulic System Description	for this test group.	uelCellDetails	criptionText	0	Once per test group.	A(1000)	String	1	1000				
			CertificationDataSubm		5	por toot group.	, (1000)	Sung	-				1	1
			ission/											
			CertificationInformatio											1
			nDetails/											
		Enter the applicable type of reconcrative	HybridElectricVehicleF	-										1
		braking technology utilized on this test	RegenerativeBraking											1
TG-90	Regenerative Braking Type	group.	etails	BrakingTypeIdentifier	0	Once per test group.	A(3)	Enumeration						
														=

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			ission/											July 2014
			CertificationInformatio											
			HybridElectricVehicleE											
		Enter a description of the type of	uelCellDetails/											
	Regenerative Braking Type if	regenerative braking technology utilized or	RegenerativeBrakingD	BrakingTypeOtherTe										
TG-91	"Other"	this test group if "other" is seleced.	etails	xt	0	Once per test group.	A(1000)	String						
			ission/											
			CertificationInformatio											
			nDetails/											
			HybridElectricVehicleF											
		Enter the applicable source of regenerative	RegenerativeBrakingD	BrakingSourceIdentifi										
TG-92	Regenerative Braking Source	braking for this test group.	etails	er	0	Once per test group.	A(1)	Enumeration						
			CertificationDataSubm											
			ISSION/ CertificationInformatio											
			nDetails/											
			HybridElectricVehicleF											
	Driver Centrelled	Deep this test group have driver controlled	uelCellDetails/	DriverCentrelledDreli										
TG-93	Regenerative Braking	regenerative braking?	etails	ngIndicator	0	Once per test group	A(1)	Enumeration						
			CertificationDataSubm	iginaloator			, (1)	Endinoration						-
			ission/											
			CertificationInformatio											
			HybridElectricVehicleE											
			uelCellDetails/											
TC 01	Number of Drive	Enter the number of drive	DriveMotorGenerator	MotorGeneratorCoun	0		N/(1)	Internet						
1G-94	Motor/Generator(S)	motor/generator(s) for this test group.	CertificationDataSubm	l	0	Once per test group.	N(1)	Integer	+ +				0	-
			CertificationInformatio											
			nDetails/											
			HybridElectricVehicleF											
			uelCellDetails/ DriveMotorGenerator											
			Details/			1n (Repeats for the total								
		Enter the applicable type of	MotorGeneratorDetail	GeneratorTypeIdentif		number of drive								
TG-95	Motor/Generator Type	motor/generator for this motor/generator.	EertificationDataSubm	ier	0	motor/generators)	A(4)	Enumeration						-
			ission/											
			nDetails/											
			HybridElectricVehicleF											
			uelCellDetails/											
		Enter a description of the type of	Details/			1n (Repeats for the total								
		motor/generator for this motor/generator if	MotorGeneratorDetail	GeneratorTypeOther		number of drive								
TG-96	Motor/Generator Type if Othe	r other is selected.	EertificationDataSubm	Text	0	motor/generators)	A(30)	String	1	30				-
			ission/											
			CertificationInformatio											
			HybridElectricVehicleF											
			uelCellDetails/											
			DriveMotorGenerator											
		Enter the rated power of the motor/generator	Details/ MotorGeneratorDetail	GeneratorRatedPow		1n (Repeats for the total								
TG-97	Rated Motor/Generator Powe	r (in kWatt)	S	erValue	0	motor/generators)	N(3)	Integer					1	
			CertificationDataSubm			,								-
			CertificationInformatio											
			nDetails/											
		Enter a description of the fuel cell for this	HybridElectricVehicleF	FuelCellDescriptionT						1000				
TG-98	Fuel Cell Description	test group.	uelCellDetails CertificationDataSubm	ext	0	Once per test group.	A(1000)	String	1	1000				
			ission/											
			CertificationInformatio											
	Fuel Cell On-Board H?	Enter the on-board bydrogen storage	nDetails/ HybridElectric\/ebicleE	FuerCellOnboardHyd										
TG-99	Storage Capacity	capacity for this test group. (in kg)	uelCellDetails	e	0	Once per test group.	N(5,2)	Decimal			5	2	0.01	
			CertificationDataSubm											
			CertificationInformatio											
			nDetails/											
		Enter the usable hydrogen fill capacity for	HybridElectricVehicleF	UsableHydrogenFillC	_						-	_		
TG-100	Usable H2 Fill Capacity	this test group. (in kg)	uelCellDetails	apacityMeasure	0	Once per test group.	N(5,2)	Decimal			5	2	0.01	

TC-101 INFORMATION Control to the total control total contro total control total contro total control total control total cont				CertificationDataSubm		Verify Light	-Duty Data Requirements						Office of	f Transportation and Air Quality
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The of the second base of t				nDetails/										
10:00 Parallel Biologies Bandons Bandons and Cert Losis excent for cash certain lange Inc. 1 Control	TG-101	HEV EV Comments	Enter any additional comments for this	HybridElectricVehicleF	ManufacturerComme	0	Once per test group	A(1000)	String	1	1000			
T0-500 Certification Region Cade Set Us replaced certification region Certification Region Cade Set Us replaced certification region Image: Certification Region Cade Set Us replaced certification region T0-500 Certification Region Cade Set Us replaced certification region Set Us replaced certification region Image: Certification Region Cade Set Us replaced certification region T0-500 Certification Region Cade Set Us replaced certification region Set Us replaced certification region Image: Certification Region Cade Set Us replaced certification Region Cade Set Us replaced certification Region Cade Set Us replaced certification Region Cade Image: Certification Region Cade Set Us replaced certification Region Cade <td>10101</td> <td>Exhaust Emissions Standard</td> <td>s and Cert Levels entered for each Certif</td> <td>cation Region</td> <td></td> <td></td> <td>Chief per test group.</td> <td>7.(1000)</td> <td>Otinig</td> <td>-</td> <td>1000</td> <td></td> <td></td> <td></td>	10101	Exhaust Emissions Standard	s and Cert Levels entered for each Certif	cation Region			Chief per test group.	7.(1000)	Otinig	-	1000			
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TC 200 Certification Region Code tooles for this exhaust standard. Index Details Doe 1 A(2) Enumeration TC 200 Existing and the exhaust standard. Long and the exhaust s			Select the applicable certification region	ExhaustEmissionsSta	CertificationRegionC		1n							
TG-200.5 Certification/u-Use Code Edite the againable certification/u-use Code Certification/u-use Code Certification/u-use Code Fest Group + Certification Provide Class + E-bhard a Entered Strandard Code + E-mission Name (dettines a unique of of extrand strandard Code used of extrandard Cod	TG-200	Certification Region Code	codes for this exhaust standard.	ndardDetails	ode	1		A(2)	Enumeration					
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TG-200 5 CertificationIn-Use Code Select the applicable certificationIn-use Details CertificationIn-Use Code + Vehicle Class + Envisor Useful Let + Envisor Details Image: CertificationIn-Use Code + Vehicle Class + Envisor Useful Let + Envisor Details Image: CertificationIn-Use Code + Vehicle Class + Envisor Useful Let + Envisor Details Image: CertificationIn-Use Code + Vehicle Class + Envisor Useful Let + Envisor Details Image: CertificationIn-Use Code + Vehicle Class + Envisor Useful Let + Envisor Details Image: CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details Image: Certification Region Code + CertificationIn-Use Code + Vehicle Class + Envisor Details														
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TG-200.5 Certification/In-Use Code Select the applicable certification/In-Use Code 1 A(2) Enumeration I <td></td> <td></td> <td></td> <td>CertificationInformatio</td> <td></td> <td></td> <td>info.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				CertificationInformatio			info.							
TG-200.5 Certification/n-Use Code code for this exhaust standard. ndardbetals de 1 A(2) Enumeration I I I TG-200.5 Vehicle Class			Select the applicable certification/in-use	ExhaustEmissionsSta	CertificationInUseCo		1n							
TG-205 Vehicle Class is standard DE index standa	TG-200.5	Certification/In-Use Code	code for this exhaust standard.	ndardDetails	de	1		A(2)	Enumeration					
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TG-205 Vehicle Class							Emission Standard Level +							
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TG-205 Vehicle Class we haust standard. Inder de la solution dard Details r 1 A(2) Enumeration				ISSION/ CertificationInformatio			set of exhaust standard/DF							
TG-205 Vehicle Class exhaust standard. IndardDetails r 1 A(2) Enumeration				nDetails/										
	TG-205	Vehicle Class	Select the applicable vehicle class for this exhaust standard.	ExhaustEmissionsSta	venicleClassIdentifie r	1	1n	A(2)	Enumeration					

					Verify Light-Duty Data Requirements					Office of Transportation and Air Quality
										July 2014
					Test Croup + Cortification					
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					Fuel + Test Procedure +					
			CertificationDataSubm		Name identifies a unique					
			ission/		set of exhaust standard/DF				([0-9]{1,3}	
			CertificationInformatio		info.				[\.][0-9]	
			nDetails/						{1,4}) ([\.][0-	
TG-201	Exhaust Emission Standard	Select the applicable standard level for this		EXNAUSTEMISSIONSST	1 1n	A(10)	Enumeration		9[1,4]([0-0](1,2)]([0-0](1,2))	
10 201				andardeevendentiner	1 1	A(10)	Enumeration		J[1,J][1]	
TC 201	Exhaust Emission Standard									
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												July 2014
	Exhaust Emission Standard											
TG-201	Level (cont.)											
						THE						
						Test Group + Certification						
						Certification/InUse Code +						
						Vehicle Class + Exhaust						
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			CortificationDateCubm			Useful Life + Emission						
			ission/			set of exhaust standard/DE						
			CertificationInformatio			info.						
			nDetails/									
		Select the applicable fuel for this exhaust	ExhaustEmissionsSta			1n						
TG-204	Fuel	standard.	ndardDetails	Fuelldentifier	1		A(3)	Enumeration				
						Tast Craws & Castification						
						Region Code ±						
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		Enter the applicable test procedure for the	ExhaustEmissionsSta	TestProcedureIdentifi		1n						
TG-204.5	Test Procedure	applicable exhaust emission standard.	ndardDetails	er	1		N(2)	Enumeration				

				Verify Light	-Duty Data Requirements					Office	of Transportation and Air Quality
TG-210	Useful Life Mileage	Select the applicable useful life mileage for this exhaust standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ ExhaustEmissionsSta dardDetails ntfier	1	Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1n	N(3)	Enumeration				July 2014
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		Select the applicable test result name for	CertificationDataSubm ission/ CertificationInformatio nDetails/ ExhaustEmissionSta		Test Group + Certification Region Code + Certification/InUse Code + Vehicle Class + Exhaust Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of exhaust standard/DF info. 1n						
TG-209	Test Result/Emission Name	this exhaust standard.	ndardDetails TestResultIdentifier	1		A(16)	Enumeration				
TG-211	Emission Standard Value	This is a system-generated numeric field based on converting the text value entered by the manufacturer for "Emission Standard Value (Text)" (TG-212).	ission/ CertificationInformatio nDetails/ EPAGeneratedCertific EmissionStandardVal ationDetails ue	1	11 for each unique set of exhaust standard/DF info.	N(7,4)	Decimal		7 4	0	
TG-212	Emission Standard Value (Text)	Enter the applicable numeric value for this exhaust standard name including any additional digits that are necessary for proper rounding. For Test Result/Emission Names equal to "CREE" or "OPT-CREE", enter a value of "999.9999" for the Emission Standard Value.	CertificationDataSubm ission/ CertificationInformatio nDetails/ ExhaustEmissionsSta ndardDetailsandardValueText	1	11 for each unique set of exhaust standard/DF info.	A(8)	Numeric string				
	Exhaust Deterioration Factor	Select the applicable deterioration factor	CertificationDataSubm ission/ CertificationInformatio nDetails/ ExhaustEmissionSSta DeteriorationFactorT		11 for each unique set of						
TG-208	Туре	type for this exhaust standard name.	ndardDetails ypeldentifier CertificationDataSubm ission/ CertificationInformatio nDetails/	1	exhaust standard/DF info.	A(4)	Enumeration				
TO 000		If this is an NMOG standard, is the	ExhaustEmissionsSta NMOGToNMHCRati	6	11 for each unique set of	A /A \					
16-206	USING NMUG/NMHC Ratio?	INING / ININIHC ratio being used?	nuaruDetails OIndicator	U	exnaust standard/DF info.	A(1)	Enumeration				

			CertificationDataSubm		Verify Light	-Duty Data Requirements								Office c	f Transportation and Air Quality
			ission/										1		July 2014
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		If applicable, optor the value for the	nDetails/												
		In applicable, enter the value for the	Tuberalis/			1 1 6-4									
		NMOG/NMHC ratio for this exhaust	ExnaustEmissionsSta	NMOGIONMHCRati		11 for each unique set of									
TG-207	Ratio of NMOG/NMHC	standard name.	ndardDetails	oValue	0	exhaust standard/DF info.	N(7,6)	Decimal				3	2	0.00	
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		If explicitly enter the exterior	nDetaile/										1		
		in applicable, enter the additive	nDetails/										1		
		deterioriation factor (DF) value for this	ExhaustEmissionsSta	AdditiveDeterioration		11 for each unique set of									
TG-214	Additive DF	exhaust standard name.	ndardDetails	FactorValue	0	exhaust standard/DF info.	N(7,6)	Decimal				7	6	0	
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		deterioriation factor (DF) value for this	ExhaustEmissionsSta	MultiplicativeDeterior		11 for each unique set of							1		
TG-215	Multiplicative DF	exhaust standard name.	ndardDetails	ationFactorValue	0	exhaust standard/DF info.	N(4.3)	Decimal				4	3	1	
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		adjustment factor value for this exhaust	nDetails/										1		
	Upward Diesel Adjustment	standard name.	ExhaustEmissionsSta	UpwardDieselAdjust		11 for each unique set of									
TG-215.5	Factor		ndardDetails	mentFactor	0	exhaust standard/DF info.	N(7.6)	Decimal				7	6	-9,999999	
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		If applicable, enter the downward diesel	nDetails/										1		
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TG-215.6	Factor	standard name	ndardDetails	stmentFactor	0	exhaust standard/DE info	N(7.6)	Decimal				7	6	-9 999999	
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		If applicable, enter the reactivity factor for	ExhaustEmissionsSta	ReactivityFactorValu		11 for each unique set of									
TC-216	Reactivity Eactor (RAE)	this exhaust standard name	ndardDetails		0	exhaust standard/DE info	N(5)	Integer						0	
10-210	Reactivity Factor (RAF)	נוווס כאוומטסנ סנמווטמוט וומוווכ.	CertificationDataSubm	5	0	exhaust standard/Dr into.	N(3)	integer						0	
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TG-220	Comments	test group.	nDetails	mmentText	0	1 per test group.	A(1000)	String	1	1000					
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			nDetails/			evap standard/DF info.					[A-Z0-9]{4}		1		
	Evaporative/Refueling Family	Enter all applicable evaporative/refueling	CertificationEvaporativ	EvaporativeRefueling							[0-9]{4}[A-				
TG-3	Name	family names for this test group	eInformationDetails	EamilyName	0	0 n	Δ(12)	String	12	12	70-01/31				
10-5	Nullic	lamily hames for this test group.	cimormationDetails	anniyivanic	0	0::11	A(12)	Stillig	12	12	20-5][5]				
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		Select the applicable certification region	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions (CertificationRegionC		Code + Certification/inose Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.									
TG-221	Certification Region Code	Select the applicable certification region codes for this evaporative standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions (StandardDetails	CertificationRegionC	0	Code + Certuication/inose Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.	A(2)	Enumeration							

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TG-221.5	Certification/In-Use Code	Select the applicable certification/in-use code for this evaporative standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions StandardDetails de	Test Group + Evap Family - Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0 0n	A(2)	Enumeration			
TG-224	Evaporative/Refueling Standard Level	Select the applicable standard level for this evaporative standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions StandardLevelIdenti StandardDetails	Test Group + Evap Family Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0 0n	A(4)	Enumeration			
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		Select the applicable fuel for this	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions	Test Group + Evap Family Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.					
TG-223	Fuel	evaporative standard.	StandardDetails FuelIdentifier	0 0n	A(3)	Enumeration			_
TG-223.5	Test Procedure	Enter the applicable test procedure for this evaporative emission standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions EtandardDetails er	Test Group + Evap Family - Evap Certification Region Code + Certification/In/Use Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0 0n	N(2)	Enumeration			

					Verify Ligh	t-Duty Data Requirements						Office	of Transportation and Air Quality
TG-223.6	Useful Life Mileage	Select the applicable useful life mileage fc this evaporative standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ r EvaporativeEmissions StandardDetails	r UsefulLifeMileageIde ntifier	0	Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info. 0.n	N(3)	Enumeration					July 2014
		·											
		Select the applicable emission name for	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions			Test Group + Evap Family + Evap Certification Region Code + Certification/InUse Code + Evap Emission Standard Level + Fuel + Test Procedure + Useful Life + Emission Name identifies a unique set of evap standard/DF info.							
16-225			Cartification Date Cultur	restresultuentiller	0	01	A(10)	Linumeration					-
TG-226	Evaporative Emission Standard Value	I his is a system-generated numeric field based on converting the text value entere by the manufacturer for "Evaporative Emission Standard Value (Text)" (TG- 226.5) .	d CertificationInformatio Details/ EPAGeneratedCertific ationDetails	EvaporativeEmission	0	11 for each unique set of evap standard/DF info.	N(7,4)	Decimal	([0-9]{1,3} [\.][0-9] {1,4}))([\.][0- 9]{1,4}) ([0- 9]{1,3}[\.]?)	. 7	4	0.0000	_
TG-226.5	Evaporative Emission Standard Value (Text)	Enter the applicable numeric value for this evaporative standard name including any additional digits that are necessary for proper rounding.	CertificationDataSubm ission/ CertificationInformatio nDetails/ s CertificationEvaporativ eInformationDetails/ EvaporativeEmissions StandardDetails	 EvaporativeEmission sStandardValueText 	0	11 for each unique set of evap standard/DF info.	A(8)	String					
TG-222	Evaporative Deterioration Factor Type	Select the applicable deterioration factor type for this evaporative standard.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeEmissions StandardDetails CertificationDataSubm	n DeteriorationFactorT ypeldentifier	0	11 for each unique set of evap standard/DF info.	A(4)	Enumeration					-
TG-227	Additive DF	Enter the additive deterioriation factor (DF value for this evaporative standard name.	ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ i) EvaporativeEmissions StandardDetails	, AdditiveDeterioration FactorValue	0	11 for each unique set of evap standard/DF info.	N(7,6)	Decimal		7	6	0	

	All Certification Exhaust and	Evaporative Tests										of Transportation and Air Quality
TG-202	Evaporative Test Number	Enter all applicable evaporative test numbers for this test group/evaporative family combination. This is a unique number assigned by Verify to identify this set of test info and results. Character 1 is the Model Year the test was originally run for, Characters 2 - 5 are the Manufacturer code followed by a dash, characters 6 -12 are the sequential 7-digit test number. Fo the sequential test number, if it begins with 9 its an EPA test, any other number is a manufacturer test. A sample test number is "9MFR-9012345".	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ EvaporativeTestNumb erDetails TestNumberIdentifier	1	1n	A(12)	String	12	12			
TG-202.5	Exhaust Test Number	Enter all applicable exhaust test numbers for this test group. This is a unique number assigned by Verify to identify this set of test info and results. Character 1 is the Model Year the test was originally run for, Characters 2 - 5 are the Manufacturer code followed by a dash, characters 6 - 12 are the sequential 7-digit test number. Fo the sequential test number, if it begins witt 9 its an EPA test, any other number is a manufacturer test. A sample test number is "9MFR-9012345".	CertificationDataSubm r ission/ I CertificationInformatio nDetails/ ExhausTestNumberD etails TestNumberIdentifier	1	1.n	A(12)	String	12	12			
TO 2167	CIIC Exempt Status	Select the applicable greenhouse gas	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio GreenhouseGasExe	0	1 for each test moun	A(2)						
TG-216.8	SFTP Federal Compliance	Select whether this Test Group is SFTP composite compliant for Tier 2 or Tier 3 requirements.	CertificationDataSubm ission/ CertificationInformatio nDetails/ SupplementalFederal TestProcedureCalcula federalComplianceId tionDetails entifier	1	1 for each test group	A(3)	Enumeration					
TG-216.9	SFTP Tier 2 Composite CO Option	Select whether the SFTP Composite CO option applies to this Test Group for Tier 2 requirements.	Certification/DataSubin ission/ CertificationInformatio nDetails/ SupplementalFederal TestProcedureCalcula tionDetails ptionIndicator	0	1 for each test group	A(1)	Enumeration					
TG-261	SFTP LEV-III Compliance	Select whether this Test Group is SFTP composite compliant for LEV-III.	CertificationDataSubm ission/ CertificationInformatio nDetails/ SupplementalFederal TestProcedureCalcula LEVIIIComplianceInd ironDetails icator	1	1 for each test group	A(1)	Enumeration					

					Verify Light-	Duty Data Requirements						Office	of Transportation and Air Quality
													July 2014
		Enter the Test Number of the official ETP											
		test for this test group.	CertificationDataSubm										
		If SETP Tier 3 Compliance Identifier (TG-	ission/ CertificationInformatio										
		260) is "TIER3," then this Official FTP test	nDetails/										
		the Tier 3 SFTP NMOG + NOX-COMP	nDetails/										
70.017		test results (TG-255) and the Tier 2/Tier 3	GreenhouseGasOffici			Once per Test Group Fuel	4(10)	0	10	40			
IG-217	Official FTP test number	CO-COMP test results (TG-219.6).	allestnumberDetails	FIPTestNumber	1	(1G-217.1) per test group	A(12)	String	12	12			
			CertificationDataSubm										
			CertificationInformatio										
			nDetails/										
			nDetails/										
TG-217.1	Test Group Fuel	Select the applicable fuels for each test aroup	GreenhouseGasOffici alTestNumberDetails	Fuelldentifier				Enumeration					
		5.00P											
			CortificationDateCubm										
			ission/										
		Select the applicable charge depleting test	CertificationInformatio										
		fuels for each test group. For PHEVs 'EL'	TestGroupIdentificatio										
	Test Group Fuel - Charge.	(Electricity) should not be entered; only	nDetails/										
TG-217.2	Depleting	engine is running.	alTestNumberDetails	Fuelldentifier				Enumeration					
		Enter the Test Number of the official US06											
		test for this test group. This US06 test											
		For Heavy Duty Class 3 vehicles enter the											
		Hot 1435 LA92' test number (Test											
		Class 2b vehicles enter the US06 Bag 2											
		Only test number (Test Procedure Code = '96') if applicable											
			CertificationDataSubm										
		If SFTP Tier 3 Compliance Identifier (TG- 260) is "TIER3" then this Official US06	ission/ CertificationInformatio										
		test number (TG-218) will be used to	nDetails/										
		calculate the Tier 3 SFTP NMOG + NOx- COMP test results (TG-255) and the Tier	TestGroupIdentificatio										
TO 010		2/Tier 3 CO-COMP test results (TG-	GreenhouseGasOffici		0	Once per Test Group Fuel	4(40)			10			
IG-218	Official US06 Test Number	219.6).	ai i estNumberDetails	USU6 lestNumber	U	(IG-217.1) per test group	A(12)	String	12	12			

					Verify Ligh	t-Duty Data Requirements						Office	of Transportation and Air Quality
		Enter the Test Number of the official SC03 test for this test group. If SFTP Tier 3 Compliance Identifier (TG- 260) is "TIER3," then this Official SC03 test number (TG-218) will be used to calculate the Tier 3 SFTP NMOG + NOx- COMP test results (TG-255) and the Tier 2/Tier 3 Co-COMP test results (TG-	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ GreenhouseGasOffici			Once per Test Group Fuel							July 2014
TG-219	Official SC03 Test Number	219.6).	alTestNumberDetails	SC03TestNumber	0	(TG-217.1) per test group	A(12)	String	12	12			_
TG-219.1	Official Cold CO Test Number	Enter the Test Number of the official Cold	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ GreenhouseGasOffici alTestNumberDetails	ColdCOTestNumber	0	Once per Test Group Fuel	۵(12)	String	12	12			
			CertificationDataSubm				/(12)	Carrig		12			-
TG-219.2	Official Highway Test Number	Enter the Test Number of the official Highway test for this test group.	ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ GreenhouseGasOffici alTestNumberDetails	HighwayTestNumber Text	0	Once per Test Group Fuel (TG-217.1) per test group	A(12)	String	12	12			
TG-262	Test Group Fuel - SFTP LEV-	Select the applicable fuels for this Test Group for LEV-III SFTP official tests	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ SupplementalFederal TestProcedureLEVIII OfficialTestNumberDe tails	Fuelldentifier	0	1n per test group		Enumeration					
TG-263	Official SFTP LEV-III FTP Test Number	Enter the Test Number of the official SFTP LEV-III FTP test number for this test group.	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ SupplementalFederal TestProcedureLEVIII OfficialTestNumberDe tails	FTPTestNumber	0	Once per Test Group Fuel SFTP LEV-III (TG-262) per test group	A(12)	String	12	12			
TG-264	Official SFTP LEV-III US06 Test Number	Enter the Test Number of the official SFTP LEV-III US06 test for this test group. This US06 test must have split bag fuel economy results. For Heavy Duty Class 3 vehicles enter the Hot 1435 LA92' test number (Test Procedure Code = '16'). For Heavy Duty Class 2b vehicles enter the US06 Bag 2 Only test number (Test Procedure Code = '96'), if applicable.	CertificationDataSubm ission/ CertificationInformatio nDetails/ TestGroupIdentificatio nDetails/ SupplementalFederal TestProcedureLEVIII OfficialTestNumberDe tails	US06TestNumber	0	Once per Test Group Fuel SFTP LEV-III (TG-262) per test group	A(12)	String	12	12			

			CertificationDataSubm								_			
			ission/											of Transportation and Air Quality
			CertificationInformatio											, , , , , , , , , , , , , , , , , , , ,
			nDetalls/ TestGroupIdentificatio											
			nDetails/											
			SupplementalFederal											
			TestProcedureLEVIII		Once per Test Group Fuel									
	Official SFTP LEV-III SC03	Enter the Test Number of the official SFTF	OfficialTestNumberDe		SFTP LEV-III (TG-262) per									
TG-265	Test Number	LEV-III SC03 test for this test group.	tails SC03TestNumber	0	test group	A(12)	String	12	12					
			CertificationDataSubm											
			ission/											
			Details/											
			TestGroupIdentificatio											
			nDetails/											
	TG- Charge Depleting Official	Enter the Test Number of the official	ChargeDepletingOffici		Once per Test Group Fuel									
219.3	UDDS Test Number	UDDS test for this test group.	alTestNumberDetails UDDSTestNumber	0	(TG-217.1) per test group	A(12)	String	12	12					
			CortificationDataSubm											
			certificationDataSubm											
			CertificationInformatio											
			nDetails/											
			EPAGeneratedCertific											
		The EPA Calculated City litmus value	ationDetails/											
		based on the vehicle specific 5-Cycle labe	EPAGeneratedGreenh		Once per Test Group Fuel									
TG-219.3.1	EPA City Litmus Value	equation(s).	ouseGasDetails CityLitmusValue	0	(TG-217.1) per test group	N(4,1)	Decimal				4	1	0.0	
			CertificationDataSubm											
			ission/											
			CertificationInformatio											
			nDetails/											
			EPAGeneratedCertific											
		The EPA Calculated City Litmus Threshold	ationDetails/											
		based on the derived 5-Cycle city label	EPAGeneratedGreenhCityLitmusThreshold		Once per Test Group Fuel									
IG-219.3.2	EPA City Litmus Threshold	equation.	ouseGasDetails Value	0	(IG-217.1) per test group	N(4,1)	Decimal				4	1	0.0	4
			CertificationDataSubm											
			ISSIUTI/ CertificationInformatic											
			nDetails/							1				
			TestGroupIdentificatio							1				
			nDetails/											
	Official Charge Depleting	Enter the Test Number of the official	ChargeDepletingOffici HighwayTestNumber		Once per Test Group Fuel									
TG-219.4	Highway Test Number	Highway test for this test group.	alTestNumberDetails Text	0	(TG-217.1) per test group	A(12)	String	12	12					J

					Verify Light	Duty Data Requirements						Office	of Transportation and Air Quality
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TG-219.4.1	EPA Highway Litmus Value	The EPA Calculated Highway Litmus Value based on the vehicle specific 5- Cycle highway label equation(s).	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails/ EPAGeneratedGreenh ouseGasDetails	HighwayLitmusValue	0	Once per Test Group Fuel (TG-217.1) per test group	N(4,1)	Decimal		4	1	0.0	
TC 210.42	EPA Highway Litmus	The EPA Calculated Highway Litmus Threshold based on the derived 5-Cycle	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails/ EPAGeneratedGreenh	HighwayLitmusThres	0	Once per Test Group Fuel	N/4 1)	Desimal					
TG-219.4.2	Threshold HC-NM+NOX-COMP - Tier 2	highway label equation. Verify will calculate and store the Tier 2 HC-NM+NOX Composite value based on the FTP, US06, and SC03 test numbers entered for SFTP.	ouseGasDetails CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails	holdValue CompositeHCNMAnd NOXValue	0	(TG-217.1) per test group	N(4,1)	Decimal		4	1	0.0	-
TG-219.6	CO-COMP - Tier 2/Tier 3	Verify will calculate and store the Tier 2 /Tier 3 CO Composite value based on the FTP, US06, and SC03 test numbers entered for SFTP.	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails	CompositeCOValue	0	11 Once per Test Group Fuel (TG-217.1) per test group	N(8,4)	Decimal		8	4	0	-
TG-219.7	PM-COMP - Tier 2	Verify will calculate and store the Tier 2 PM Composite value based on the FTP, US06, and SC03 test numbers entered for SFTP.	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails	CompositePMValue	0	11	N(8,4)	Decimal		8	4	0	
TG-255	NMOG+NOX-COMP - Tier 3	Verify will calculate and store the Tier 3 NMOG+NOX Composite value based on the FTP, US06, and SC03 test numbers entered for SFTP.	N/A	N/A	0	11 Once per Test Group Fuel (TG-217.1) per test group	N(8,4)	Decimal		8	4	0	_
TG-256	NMOG+NOX-COMP - LEV-III	Verify will calculate and store the LEV-III NMOG+NOX Composite value based on the FTP, US06, and SC03 test numbers entered for SFTP.	N/A	N/A	0	11 Once per Test Group Fuel (TG-217.1) per test group	N(8,4)	Decimal		8	4	0	-
TG-257	CO-COMP - LEV-III Exhaust Emission Cert Level I	CO Composite value based on the FTP, US06, and SC03 test numbers entered for SFTP.	N/A	N/A	0	11 Once per Test Group Fuel (TG-217.1) per test group	N(8,4)	Decimal		8	4	0	

					Verify Light	-Duty Data Requirements						Office	of Transportation and Air Quality
TG-212.9	Rounded Emission Result	Verify will round the unrounded test results for each CSI test number/emission name combination to the same number of digits as the corresponding emission standard plus one digit. Each rounded result will then have the DF applied to calculate the official certification levels.	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails/ EPAGeneratedExhaus tEmissionCertification LevelDetails	RoundedEmissionRe sultValue	1	1 for each provided unrounded emission result (via test number) for which a corresponding emission standard is provided on the CSI.	N(11.7)	Decimal		11	7	0	July 2014
TG-213	Certification Level	Verify-calculated certification levels for all applicable Test Results/Emission Names.	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails/ EPAGeneratedExhaus tEmissionCertification LevelDetails	CalculatedCertificatio nLeveIValue	1	1 for each calculated Rounded Emission Result	N(8,4)	Decimal		8	4	0	
TG-213.5	Criteria Pollutant Pass/Fail Indicator	Verify will compare the Calculated Cert Level with the corresponding standard and will set the Pass/Fail Indicator to "Pass" if the Calculated Cert Level is less than or equal to the standard, otherwise it will be set to "Fail". A certificate will not be issued for any CSIs that contain a "Fail".	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails/ EPAGeneratedExhaus tEmissionCertification LevelDetails	CertificationPassFaill ndicator	1	1 for each calculated Cert Level;	A(4)	Enumeration					
	Evap Emission Cert Level Inf	ormation		[[1			1		1	1	
TG-228	Rounded Emission Result	Verify will round the unrounded test results for each CSI test number/emission name combination to the same number of digits as the corresponding emission standard plus one digit. Each rounded result will then have the DF applied to calculate the official certification levels.	ver:CertificationDataS ubmission/ ver:CertificationInform ationDetails/ ver:EPAGeneratedCer tificationDetails/ ver:EPAGeneratedEv aporativeEmissionCert ificationLevelDetails	RoundedEmissionRe sultValue	1	1 for each provided unrounded emission result (via test number) for which a corresponding emission standard is provided on the CSI.	N(11,7)	Decimal		11	7	0	
TG-229	Cert Level	Verify will calculate cert levels by applying the DF to each rounded emission result.	ver:CertificationDataS ubmission/ ver:CertificationInform ationDetails/ ver:EPAGeneratedCer tificationDetails/ ver:EPAGeneratedEv aporativeEmissionCert ificationLevelDetails	CalculatedCertificatio nLevelValue	1	1 for each calculated Rounded Emission Result	N(8,4)	Decimal		8	4	0	
TG-230	Pass/Fail Indicator	Verify will compare the Calculated Cert Level with the corresponding standard and will set the Pass/Fail Indicator to "Pass" if the Calculated Cert Level is less than or equal to the standard, otherwise it will be set to "Fail". A certificate will not be issued for any CSIs that contain a "Fail".	ver:CertificationDataS ubmission/ ver:CertificationInform ationDetails/ ver:EPAGeneratedCer tificationDetails/ ver:EPAGeneratedEv aporativeEmissionCert ificationLeveIDetails SSI (test provuleuran fr	CertificationPassFaill ndicator	1	1 for each calculated Cert Level	A(4)	Enumeration					

TG-203	Test Category Certified Models	This field will automatically be filled based on the test procedure (in "Test" section) associated with the test number. A valid test number is required for these test categories.	CertificationDataSubm ission/ CertificationInformatio nDetails/ EPAGeneratedCertific ationDetails	TestCategoryIdentifie	1	1 per test procedure	A(6)	Enumeration				
TG-300	Carline Manufacturer code	Enter all applicable carline manufacturer codes that will be certified for this test group.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails	EPAManufacturerCo de	1	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	A(3)	Fixed string		[A-Z0-9]{3}		
TG-301	Division code	Enter the division code for each carline for this test group. Division is also known as Make.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails	ManufacturerDivision Code	1	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	N(2)	Integer				0
TG-302	Carline code	Enter all applicable carline codes for this test group.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails/	CarlineCode	1	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	N(3)	Integer				0
TG-305	Certification Region Code	Select all applicable certification region codes for each entered carline code.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails	CertificationRegionC ode	1	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	A(2)	Enumeration				

Verify Light-Duty Data Requirements

					Verify Light	Duty Data Requirements							Office of Transportation and Air Quality
													July 2014
			CertificationDataSubm ission/ CertificationInformatio nDetails/ Certification Europe			1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission							
TG-307	Transmission Type	Enter the applicable transmission type for this model.	CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails	LightDutyTransmissi onTypeIdentifier	1	transmission gear count, drive system identifier	A(3)	Enumeration					
TG-308	Transmission Type if Other	Enter a description of the transmission type if "other" selected.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationDetails/ CertifiedModelsDetails/	LightDutyTransmissi onTypeOtherText	с	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	A(30)	Normalized string	1	30			
	, , , , , , , , , , , , , , , , , , ,	Does this model type have a transmission	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/	TransmissionLockupI		1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count,		g					
TG-309	Transmission Lockup	torque convertor lock-up mechanism?	CertifiedModelsDetails	ndicator	1	drive system identifier	A(1)	Enumeration					
		Does this model type have any transmission creeper gear(s)? Creeper gear is defined as having a gear ratio	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/	TransmissionCreeper		1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count,							
TG-310	Transmission Creeper Gear	greater than 5:1.	CertifiedModelsDetails	GearIndicator	1	drive system identifier	A(1)	Enumeration					
TG-311	Total Number of Transmission Gears	Enter the total number of forward transmission gears for this model type.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails	TransmissionGearCo unt	1	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	N(2)	Integer				1	
TG-312	Drive system	Enter the applicable drive system for this model.	CertificationDataSubm ission/ CertificationInformatio nDetails/ CertificationEvaporativ eInformationDetails/ CertifiedModelsDetails	TestDriveCode	1	1 for each unique cobination of carline mfr code, division code, carline code, cert region code, transmission type, transmission lockup indicator, transmission creeper gear indicator, transmission gear count, drive system identifier	A(1)	Enumeration					

Verify Light-Duty Data Requirements

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Verify Light-Duty Data Requirements

Max Value	Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
	N = New dataset	Light-Duty	Certification		Manufacturer	Front End	XMI	
		Light Duty	Certification		Manufacturer			
								LD-CERT-TG-BR069
								LD-CERT-TG-BR070
		Light-Duty	Certification		Verify	Front End	XML	LD-CERT-TG-BR090
								LD-CERT-TG-BR001a
								LD-CERT-TG-BR001D
								LD-CERT-TG-BR004
								LD-CERT-TG-BR005
								LD-CERT-TG-BR079
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR084 LD-CERT-TG-BR101
	N = New							
	R = Update For Running Change	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR103
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR003
								LD-CERT-TG-BR001a
								LD-CERT-TG-BR002
								LD-CERT-TG-BR084
2100		Light Duty	Cortification		Manufacturor	Front End	× MI	LD-CERT-TG-BR089
2100		Light-Duty	Certification		Manufacturer			LD-CERT-TG-BR090
	C - Combustion Engine							
	E = Electric Motor	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-IB001
	N No							
	Y - Yes	Light-Duty	Certification		Verify	Back End	Assigned	LD-CERT-TG-BR105
	G - Gasoline							
	M - Methanol							LD-CERT-TG-BR106
	E - Ethanol							LD-CERT-TG-BR107
	CNG - Compressed Natural Gas							LD-CERT-TG-BR158 LD-CERT-TG-BR159
	LPG - Liquid Petroleum Gas							LD-CERT-TG-BR160
	H - Hydrogen EL - Electricity							LD-CERT-TG-BR210
	HYD - Hydraulic	Light-Duty	Certification		Manufacturer	Front end	XML	LD-CERT-TG-IBR007

				Verify Light-Duty Data Requireme	ents			
	MFI = Multipoint/sequential fuel injection							
	CMIX = CNG mixer unit							
	GDI = Spark Ignition Direct fuel injection GDPI = Spark Ignition direct & ported injection							
	LMIX = LPG Mixer							
	CRDI = Common Rail Direct Diesel Injection							
	GFI = Gaseous Fuel Injection							
	IDI = Indirect Diesel Injection							
	TBI = Throttle Body Injection							LD-CERT-TG-IBR003
	OI = Other (contact EPA prior to use)	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR108
	N=No							
	Y=Yes	Light-Duty	Certification					LD-CERT-TG-BR109
								LD-CERT-TG-IBR005
1		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR112
	S - Fuels Stored Senarately							LD-CERT-TG-BR113a
	T- Fuels Stored Together	Light-Duty	Certification		Manufacturer	Front end	XML	LD-CERT-TG-BR113b
	S- Fuels Combusted Separately	Light-Duty	Certification		Manufacturer	Front end	XMI	LD-CERT-TG-BR114
		Light Duty	Certification		Manufacturer	Tione chu	XIVIE	
	N - No							
	Y - Yes	Light-Duty	Certification		Manufacturer	Front end	XML	LD-CERT-TG-BR115
	N - No							
	Y - Yes	Light-Duty	Certification		Manufacturer	Front end	XML	LD-CERT-TG-BR116
	N - No							
	Y - Yes	Light-Dutv	Certification		Manufacturer	Front end	XML	LD-CERT-TG-BR117
	V - Ves							
	N = N0	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR011
		<u> </u>				-		
		Light-Dutv	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR012

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				veniy Light-Duty Data Requirem	ients			
	Y = Yes							
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR013
	Y = Yes							
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML	
		Light-Duty	Certification		Manufacturer	Front End	XML	
5.0		Light-Duty	Certification		Manufacturer	Front End	XMI	LD-CERT-TG-IBR006
0.0		Light Duty	Contineation		indianalation	From End		
	CA = California + CAA Section 177 states	Light-Duty	Certification		Manufacturer	Front End	XMI	LD-CERT-TG-BR015
		Light Duty	Certification		Manufacturer			ED CERTITO DROIS
0.000.000			Cortification		Manufacturor	Front End	×MI	
9,999,999			Certification		wanulaclulei			
	Y = Yes							
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR201
	For Federal or California Certification Region Codes:							
	LDV - LDV/Passenger Car							
	LDT1 - LDT1 (LVW-3750, GVW 0-6000), LDT2 - LDT2 (LVW 3751-5750, GVW 0-6000).							
	LDVT - LDV and LDT1							
	For Foderal Certification Region Code:							
	LDT3 - LDT3 (ALVW 3751-5750, LVW 0-3750, GVW > 6000).							
	LDT4 - LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000),							
	MDPV - MDPV (Federal Tier 2, GVWR 8501-10000),							
	HDV2 - HDV2 (Federal HD chassis Class 20 GVW 8501-10000), HDV2 - HDV2 (Federal HD chassis Class 3 GVW 10001-14000)							
	For California Certification Region Code:							
	M6 - MDV6 (Cal. LEV 2/3 MDV GVW 8501-10000).							
	M7 - MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)					L		
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR202
	F = Federal							
	C = CARB	Light-Duty	Certification		Manufacturer	Front End	XML	

				Verify Light-Duty Data Requiren	ients			
		Light-Duty	Certification		Manufacturer	Front End	XML	
	E - Eull as definitioning							
	F = Full - no deficiencies PD = Partial - with deficiencies							
	PDP = Partial - with deficiencies and penalty							
	PSD = Partial - some models w/o deficiencies and some w/							
	PSDP = Partial - some models w/o deficiencies and some w/							
	deficiencies and penalty	Light-Duty	Certification		Manufacturer	Front End	XML	
99		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR020
		Light-Duty	Certification		Manufacturer	Front End	XML	
	V - Yoc			If Y entered for TG-24 then must use reduced fee cert				
	N = No	Light-Duty	Certification	Data type exists.	Manufacturer	Front End	XML	
		Light-Duty	Certification		Manufacturer	Front End	XMI	
		Light Duty	Certification		Manufacturer			
	EM = IC Engine/Electric Motor							
	EH = IC Engine/Hydraulic							LD-CERT-TG-BR120
	OT = Other	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
								LD-CERT-TG-BR023
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
	4SI - 4-Stroke Spark Ignition							
	4SCI - 4-Stroke Compression Ignition							
	2SCI - 2-Stroke Compression Ignition							
	RT - Rotary							
	RK - Rankine							
	STIR - Stirling	1						LD-CERT-TG-BR122
	IOT - Other	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002

				Verify Light-Duty Data Requiren	ients			
								I D-CERT-TG-BR024
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
	I = Inline							
	V = V-shaped engine H = Horizontally Opposed							
	W = W-shaped engine RT = Rotary							LD-CERT-TG-BR125
	OT = Other	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
								LD-CERT-TG-BR027
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
20		Linht Dut.	Contification			Front Find	VA 4	LD-CERT-TG-BR127
20		Light-Duty	Centification		wanuracturer	FIONLENG		LD-CERT-TG-GBR002
	N = No Y = Yes	Light-Duty	Certification		Manufacturer	Front End	ХМІ	LD-CERT-TG-BR163
		Light Duty	Contineation		mandiadaroi			
								LD-CERT-TG-BR164 LD-CERT-TG-BR199
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR200 LD-CERT-TG-GBR002
99		Light-Duty	Certification		Verify	Front End	XML	LD-CERT-TG-GBR002
								I D-CERT-TG-BR165a
0.000		Light Duty	Cortification		Monufacturor	Front End	× MI	LD-CERT-TG-BR165b
9,999		Light-Duty	Certification		Manufacturer			LD-CERT-TG-GBR002
99.999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
	Y = Yes N = No	Light-Duty	Certification		Manufacturer	Front End	ХМІ	LD-CERT-TG-BR031
				Verify Light-Duty Data Requireme	ents			
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			Cortification		Manufacturor	Front End	YMI	LD-CERT-TG-GRR032
			Certification		Manufacturer			LD-CERT-TG-GBR002
	Y = Yes							LD-CERT-TG-BR031
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
								I D-CERT-TG-RP033
		Light-Dutv	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
						-		
	Y = Yes		Contrificontinue			Frank Frad	VA 4	LD-CERT-TG-BR031
		Light-Duty	Certification		Manuracturer	Front End	XML	LD-CERT-TG-GBR002
								LD-CERT-TG-BR034
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
								ID CEPT TO PD021
9		Light-Dutv	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
-		3.2						
			Contrificontinue			Frank Frad	VA 4	LD-CERT-TG-BR031
9			Certification		wanuracturer		∧iviL	LD-CERT-TG-GBRUUZ
	NA=Naturally aspirated							
	ISC=Supercharged							
	TS=Turbocharged+Supercharged							LD-CERT-TG-BR030
	OT=Other	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
								LD-CERT-TG-BR073a
								LD-CERT-TG-BR073b
								LD-CERT-TG-BR075
								LD-CERT-TG-BR179
99		Light-Dutv	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002

				Verify Light-Duty Data Requireme	ents			
	N = Single							
	P = Parallel							
	S = Series		0			E		LD-CERT-TG-BR179
	PS = Both (Parallel and Series)	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
								LD-CERT-TG-BR035
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
	A = Air							
	L = Liquid							LD-CERT-TG-BR083
	N = N/A	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
		Light-Duty	Certification					
		Light-Duty	Certification					
								LD-CERT-TG-BR128
								LD-CERT-TG-BR181
99		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR001
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR001
								LD-CERT-TG-BR166
99		Light-Duty	Certification		Verify	Front End	generated	LD-CERT-TG-GBR001
	TWC = Three-way catalyst							
	OC = Oxidation catalyst							
	HCAD = HC-Adsorber							
	DPE - Diesel Particulate Eilter							
	SCR = Selective Catalytic Reduction							
	NOXAD = NOx Adsorber							LD-CERT-TG-BR166
	OT = Other	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR001
	PT = Platinum							
	PL = Paladium							
	RH = Rhodium							
	PI+PL = Platinum + Paladium							
	P I +RH - Platinum + Rhodium PI +RH - Paladium + Rhodium							
	PT+PI + RH = Platinum + Paladium + Rhodium							I D-CERT-TG-BR167
	OT = Other	Light-Dutv	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR001

			Verify Light-Duty Data Requirem	ents			
		Light-Duty	Certification	Manufacturer	Front End	ХМГ	LD-CERT-TG-BR037
		99					
	M=Metal						LD-CERT-TG-BR168
	C=Ceramic	Light-Duty	Certification	Manufacturer	Front End	XML	LD-CERT-TG-GBR001
	M=Monolith						LD-CERT-TG-BR168
	OT=Other	Light-Duty	Certification	Manufacturer	Front End	XML	LD-CERT-TG-GBR001
							LD-CERT-TG-BR038
		Light-Duty	Certification	Manufacturer	Front End	XML	LD-CERT-TG-GBR001
		Light-Duty	Certification				
		Light-Duty		-			
							LD-CERT-TG-BR170a
							LD-CERT-TG-BR182
99		Light-Duty	Certification	Manufacturer	Front End	XML	LD-CERT-TG-GBR002
99		Light-Duty	Certification	Verify	Front End	generated	LD-CERT-TG-GBR002
	U2S = Uxygen HO2S = Heated oxygen						
	AFS = Air fuel						
	HAFS = Heated air fuel						
	OT = Other	Light-Duty	Certification	Manufacturer	Front End	XML	LD-CERT-TG-BR1/1 LD-CERT-TG-GBR002
		J					

			1	Verify Light-Duty Data Requiren	nents			
				, , , , ,				
		Light-Duty	Cortification		Manufacturor	Front End	YMI	
		Light-Duty	Certification		Ivianulaciulei			ED-CERT-TG-GBR002
								LD-CERT-TG-BR174a
								LD-CERT-TG-BR174b
99		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
		Light Duty	Cortification		Manufacturor	Front End	× MAL	
		Light-Duty	Certification		wanuracturer	FIONLENU	XIVIL	LD-CERT-TG-GBR002
				Each of the elements in the schema group				
				ExhaustEmissionsControlDeviceDetails (TG-67				
				thorugh TG-73) occurs only once per engine				
		Light-Duty	Certification	configuration.				
	N - N							
	Y = Yes	Light Duty	Cortification	Depeats once per ongine configuration	Manufacturor	Front End	× MAL	
		Light-Duty	Certification		wanulacturer	FIONLENU	XIVIL	LD-CERT-TG-GBR002
	Y = Yes							
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
	VVIC = Variable Valve Timing Control							
	OT - Other	Light-Duty	Certification		Manufacturer	Front End	XMI	
			Ceruncation		manuraciurer			LD-CLNT-IG-GDRUUZ
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR002
	X = X							
		Linkt D.	Contification		Monuferture	Front Find	VM	
1	IIN = INO	I Light-Duty	Certification	1	IMANUTACTURE	Front End	IXML	LD-CERT-TG-GBR002

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			Verify Light-Duty Data Requiremen	nts			
AIR = Secondary Air Injection PAIR = Pulsed Secondary Air Injection							
NA =Not Applicable							
 OT = Other	Light-Duty	Certification	M	Nanufacturer	Front End	XML	LD-CERT-TG-GBR002
	Light-Duty	Certification	M	Nanufacturer	Front End	XML	LD-CERT-TG-GBR002
CR = Catalytic Radiator							
NE = Not Equipped							
 OT = Other	Light-Duty	Certification	M	Nanufacturer	Front End	XML	LD-CERT-TG-GBR001
	Light-Duty	Certification	M	Nanufacturer	Front End	XML	LD-CERT-TG-GBR001
	Light-Duty	Certification	M	Nanufacturer	Front End	XML	LD-CERT-TG-GBR001
	Light-Duty	Certification					
B = Potton(c)							
C = Capacitor							LD-CERT-TG-BR118
OT = Other	Light-Duty	Certification	M	/lanufacturer	Front End	XML	LD-CERT-TG-GBR003
	Light-Duty	Certification		lanufacturor	Front End	XMI	LD-CERT-TG-GPP002
		Ceruncation		nanulaciulei			LD-OLIVI-1G-GDR003
LA = Lead Acid							
NIMH = NIMH							
LI = Lithium Ion				1	Front Find	VAU	LD-CERT-TG-BR131
	Lignt-Duty	Certification	M	nanufacturer	Front End	XML	LD-CERT-TG-GBR003
							LD-CERT-TG-BR132
	Light-Duty	Certification	N	/anufacturer	Front End	XML	LD-CERT-TG-GBR003

				Verify Light-Duty Data Require	ements			
								LD-CERT-TG-BR133
999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
								LD-CERT-TG-BR134
999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
9999.99		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR135
								LD-CERT-TG-BR136
9999.9		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
	ON = On-Board OFF = Off-Board							LD-CERT-TG-BR137
	B = Both	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
99		Light-Duty	Certification		Manufacturer	Front End	XMI	LD-CERT-TG-BR138
35		Light Duty	Certification		Manufacturer			
								LD-CERT-TG-BR139
99.99		Light-Duty	Certification	Repeats once per each TG-86.	Manufacturer	Front End	XML	LD-CERT-TG-GBR003
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
								LD-CERT-TG-BR180
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
	NA = Not applicable (default)							
	ERE = Electrical Regen Brake							
	HRE = Hydraulic Regen Brake	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR086

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		1	1	Varify Light Duty Data Baguiron	Anto	1		
				Verity Eight Duty Data Requirem	lenes			
		Light-Duty	Certification		Manufacturer	Front End	хмі	LD-CERT-TG-GBR003
		Light Duty	Certification		Manadaturer			ED CERTITO ODI(003
	F = Front Wheels							
	R = Rear Wheels		Cortification		Manufacturor	Front End	×MI	
		Light-Duty	Certification		Manufacturer	FIONELIN	∧iviL	LD-CERT-TG-GBR003
			Contification			Front Food		LD-CERT-TG-BR049
		Light-Duty	Certification		iviariuracturer	Front End	XIVIL	LD-CERT-TG-GBR003
								LD-CERT-TG-BR050
9		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
	ACI = AC Induction							
	DCB - DC Brushless							
	SR - Switched Reluctance			TG-95- TG-97 comprise a repeating group per each TG-				I D-CERT-TG-BR052
	OT = Other	Light-Duty	Certification	94.	Manufacturer	Front End	XML	LD-CERT-TG-GBR003
				•				
			Cortification		Manufacturor	Front End	×MI	LD-CERT-TG-BR051
			Ceruncation		Invianuraciurer			LD-CERT-TG-GBRUU3
								LD-CERT-TG-BR052
999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
								LD-CERT-TG-BR140a
								LD-CERT-TG-BR140b
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
								LD-CERT-TG-BR141a
999.99		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
		Light Duty						
000 00		Light-Duty	Certification		Manufacturor	Front End	YMI	

			Verify Light-Duty Data Requirem	ents			
	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-GBR003
	Light-Duty	Certification					
CA = California + CAA Section 177 states		Contification	Come of element TC 205 if Dath is such ded		Event End	VAN	
 FA = Federal	Light-Duty	Certification	Same as element TG-305 If Both is excluded.	Manufacturer	Front End	XML	
							LD-CERT-TG-BR064b
							LD-CERT-TG-BR064c
							LD-CERT-TG-BR065b
							LD-CERT-TG-BR066
							LD-CERT-TG-BR215
C = Certification							LD-CERT-TG-BR216
B = Both	Light-Duty	Certification		Manufacturer	Front End	XMI	LD-CERT-TG-BR217
	Light Duty	Certification		Manalacturer		XIIIE	ED OEKT TO DREID
For Federal or California Certification Region Codes:							
LDV - LDV/Passenger Car							
LDT1 - LDT1 (LVW-3750, GVW 0-6000),							
LDVT - LDV and LDT1							
For Federal Certification Region Code:							
LD13 - LD13 (ALVW 3751-5750, LVW 0-3750, GVW > 6000), LDT4 - LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)							
MDPV - MDPV (Federal Tier 2, GVWR 8501-10000),							
HDV1 - HDV1 (Federal HD chassis Class 2b GVW 8501-10000),							
HDV2 - HDV2 (Federal HD chassis Class 3 GVW 10001-14000)							
For California Certification Region Code:							
M6 - MDV6 (Cal. LEV 2/3 MDV GVW 8501-10000),							
M7 - MDV7 (Cal. LEV 2/3 MDV GVW 10001-14000)		Cortification		Manufacture	Front Frid	VMI	
	LIGNT-DUTY	Certification		Inviariuracturer	Front End	L XIVIL	LD-CERT-TG-BR016

B1 = Federal Tier 2 Bin 1			Verify Light-Duty Data Requirem	nents				
B2 = Federal Tier 2 Bin 2								
B2 - Federal Tier 2 Bin 2								
$B3 = \Gamma \operatorname{cdcral} \operatorname{Ticr} 2 \operatorname{Din} 3$ $B4 = \operatorname{Fodoral} \operatorname{Ticr} 2 \operatorname{Din} 4$								
D4 – Feueral Tier 2 Din 4 D5 – Federal Tier 2 Din 5								
BS - Federal Tier 2 Bill 5								
B6 = Federal Tier 2 Bin 6								
B7 = Federal Tier 2 Bin 7								
B8 = Federal Tier 2 Bin 8								
B9 = Federal Tier 2 Bin 9								
B10 = Federal Tier 2 Bin 10								
B11 = Federal Tier 2 Bin 11								
HDV1 = HDV1 (Federal HD chassis Class 2b GVW 8501-10000)								
HDV2 = HDV2 (Federal HD chassis Class 3 GVW 10001-14000)								
L2 = California LEV-II LEV								
L2OP = California LEV-II LEV Optional								
1/2 = California I EV-II I II EV								
S2 - California LEV-II SLILEV								
ZEV = Collifornia ZEV								
ZEV – California ZEV								
PZEV – California PZEV								
							LD-CERT-TG-BR081a	
							LD-CERT-TG-BR081b	
	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR102	
L2LEV160 - California LEV-II LEV160								
L2ULEV125 - California LEV-II ULEV125								
L2SULEV30 - California LEV-II SULEV30								
L2LEV395 - California LEV-II LEV395								
L2ULEV340 - California LEVII ULEV340								
1 21 EV630 - California I EV-II I EV630								
1 2ULEV570 - California LEV-ILULEV570								
I 3I EV160 - California I EV-III I EV160								
1 31 II EV/125 - California L EV/111 LII EV/125								
L 21 II EV/70 - California L EV/III EV/70								
L3ULEV/0 - California LEV-III OLEV/0								
L2CHEV20 California LEV/III CLEV20								
LOOLU EV00 - California LEV-III SULEVO0								
L3SULEV20 - California LEV-III SULEV20								
LSLEV395 - California LEV-III LEV395								
L3ULEV340 - California LEV-III ULEV340								
L3ULEV250 - California LEV-III ULEV250								
L3ULEV200 - California LEV-III ULEV200								
L3SULEV1/U - California LEV-III SULEV1/U								
L3SULEV150 - California LEV-III SULEV150								
L3LEV630 - California LEV-III LEV630								
L3ULEV570 - California LEV-III ULEV570								
L3ULEV400 - California LEV-III ULEV400								
L3ULEV270 - California LEV-III ULEV270								
L3SULEV230 - California LEV-III SULEV230								
L3SULEV200 - California LEV-III SULEV200								
OT = Other								
T1 = Federal Tier 1 (for use by ICIs only)								
								J

				ents			
T3B160 - Federal Tier 3 Bin 160							
T3B125 - Federal Tier 3 Bin 125							
13B110 - Federal Tier 3 Transitional Bin 110							
13B85 - Federal Her 3 Hansidonal Bill 85 T2SULEV20 - Ecdoral Tior 2 Transitional J EV/II SULEV20 Carryover							
T3B70 - Eederal Tier 3 Bin 70							
T3B50 - Federal Tier 3 Bin 50							
T3B30 - Federal Tier 3 Bin 30							
T3B20 - Federal Tier 3 Bin 20							
T3B0 - Federal Tier 3 Bin 0							
HDV2B395 - Federal Tier 3 HD Class 2b Transitional Bin 395							
HDV2B340 - Federal Tier 3 HD Class 2b Transitional Bin 340							
HDV2B250 - Federal Tier 3 HD Class 2b Bin 250							
HDV2B170 - Federal Tier 3 HD Class 2b Bin 170							
HDV2B150 - Federal Tier 3 HD Class 2b Bin 150							
HDV2B0 - Federal Tier 3 HD Class 20 Bill 0							
HDV3B570 - Federal Tier 3 HD Class 3 Transitional Bin 550							
HDV3B400 - Federal Tier 3 HD Class 3 Bin 400							
HDV3B270 - Federal Tier 3 HD Class 3 Bin 270							
HDV3B230 - Federal Tier 3 HD Class 3 Bin 230							
HDV3B200 - Federal Tier 3 HD Class 3 Bin 200			NEW Business Rule: 'T3B110', 'T3B85' and 'T3SULEV30' are not				
HDV3B0 - Federal Tier 3 HD Class 3 Bin 0			allowed for Model Year (TG-6) 2020 and later.				
			NEW Business Rule: 'HDV2B395', 'HDV2B340', 'HDV3B630' and				
			'HDV3B570' are not allowed for Model Year (TG-6) 2022 and				LD-CERT-FG-BR205
			later.				LD-CERT-FG-BR206
G - Gasoline							
D - Diesel							
M - Methanol							
E - Ethanol							
CNG - Compressed Natural Gas							
CNG - Compressed Natural Gas LNG - Liquified Natural Gas							
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas							
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen			Multi-fueled vehicles will have at least one test # for each				
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWFE (INCHWAY TST)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWYE0 (00 mph Highway Test)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN: LOAD) 3 - HWF80 (80 mph Highway Test) 10 = IbLE Co	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWFE (HIGHWAY TEST) 9 = HWY80 (80 mph Highway Test) 10 = IDLE CO 11 = COLD CO 11 = SOLIDACK TEST	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWTPE (HIGHWAY TEST) 9 - HWTPB (B mph Highway Test) 10 = IDLE CO 11 = COL CO 15 = SPITBACK TEST 16 - Hot 1435 LA92	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 cvys 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (Romph Highway Test) 10 = IDLE CO 11 = COL CO 15 = SPITBACK TEST 16 = HOL 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 21 = FED FUEL 2 DAY EXH (BUTANE LOAD)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY90 (80 mpH Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EVAP (BUTANE)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2=CVS 75 AND LATER (W/O CAN. LOAD) 3= HWY80 (20 mph Highway Test) 10 = IDLE CO 11 = COLD CO 11 = COLD CO 15 = SPITEACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE) 23 = FED FUEL 2 DAY EXH (BUTANE) 23 = FED FUEL 2 DAY EXH (BUTANE) 24 = FED FUEL 2 DAY EXH (BUTANE) 25 = CA FUEL A FUEL (CA FUEL (CA FUEL CA FUEL CA FUEL (CA FUEL CA FUEL CA FUEL (CA FUEL CA FUEL CA FUEL CA FUEL (CA FUEL CA FUEL	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 cVS75AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (80 mph Highway Test) 10 = IDLE CO 11 = COL CO 15 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 cVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (K0 mph Highway Test) 10 = IDLE CO 11 = COL CO 15 = SPITBACK TEST 16 = HOL 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = CA FUEL 2 DAY EXH (BUTANE LOAD) 23 = CA FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL RUNNING LOSS	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWY8E (HIGHWAY TEST) 9 = HWY8E (Bio mph Highway Test) 10 = IDLE CO 11 = SOLBACK TEST 11 = SOLBACK TEST 12 = SOLBACK TEST 13 = Hot L435 LA92 21 = FED FUEL 2 DAY EVA (BUTANE LOAD) 22 = FED FUEL 2 DAY EVA (BUTANE LOAD) 23 = FED FUEL 2 DAY EVA (BUTANE LOAD) 24 = FED FUEL 2 DAY EVA (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP(BUTANE LOAD) 34 = FED FUEL 3 DAY EVAP(BUTANE LOAD) 35 = CA FUEL 3 DAY EVAP(BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWT9E (HIGHWAY TEST) 9 - HWT90 (Bo mph Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 3 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 33 = FED FUEL 3 DAY EXH (BUTANE LOAD) 34 = FED FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 10 AY EXH (BUTANE LOAD)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (60 mph Highway Test) 10 = IDLE CO 11 = COL CO 15 = SPITBACK TEST 16 = Hol 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 3 DAY EXH (BUTANE LOAD) 23 = FED FUEL 3 DAY EXH (BUTANE LOAD) 23 = FED FUEL 3 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL RUNNING LOSS 34 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DA	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWY80 (Smph Highway Test) 40 = DbLCO 14 = DbLCO 15 = SPITBACK TEST 15 = SPITBACK TEST 15 = SPITBACK TEST 15 = HOL 2D AY EVA (BUTANE LOAD) 23 = FED FUEL 2 DAY EVA (BUTANE LOAD) 24 = FED FUEL 2 DAY EVA (BUTANE LOAD) 25 = CA FUEL 2 DAY EVA (BUTANE LOAD) 25 = CA FUEL 2 DAY EVA (BUTANE LOAD) 25 = CA FUEL 2 DAY EVA (BUTANE LOAD) 31 = FED FUEL 3 DAY EVA (BUTANE LOAD) 32 = FED FUEL 3 DAY EVA (BUTANE LOAD) 33 = FED FUEL 3 DAY EVA (BUTANE LOAD) 33 = FED FUEL 3 DAY EVA (BUTANE LOAD) 33 = CA FUEL 3 DAY EVA (BUTANE LOAD) 43 = CED FUEL 3 DAY EVA (BUTANE LOAD) 43 = CED FUEL 3 DAY EVA (BUTANE LOAD) 43 = CA FUEL 2 DAY EVA (BUTANE LOAD) 41 = FED	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (80 mph Highway Test) 10 = IDLE CO 11 = COLD CO 5 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 10 AY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL 10 AYEXH (BUTANE LOAD) 33 = CA FUEL 10 AYEXH (BUTANE LOAD) 33 = CA FUEL 2 DAY EXH (BUTANE LOAD) 33 = CA FUEL 2 DAY EXH (BUTANE LOAD) 33 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL 2 DAY EXH (BUTANE LOAD) 44 = FED FUEL 2 DAY EXH (FLATTO LOAD) 44 = FED FUEL 2 DAY EXH (FLATTO LOAD) 44 = FED FUEL CONTROL (CAST) 44 = FED FUEL CONTROL (CAST) 45 = FOFLEL (CONTROL (FLATTO LOAD) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CAD) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CAD) 45 = FED FUEL CONTROL (CATOR) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CAD) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CATOR) 45 = FED FUEL CONTROL (CAST) 45 = FED FUEL CONTROL (CAST) 4	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 cVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (60 mph Highway Test) 10 = IDLE CO 11 = COL CO 5 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 32 = FED FUEL 2 DAY EXH (BUTANE LOAD) 32 = FED FUEL 2 DAY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL RUNNING LOSS 38 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL 2 DAY EXH (BUTANE LOAD) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
 CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 + HWFE (HIGHWAY TEST) = HWF0 (80 mph Highway Test) 1 = 00L0 CO 1 = 00L0 CO 1 = 00L0 CO 2 = FEP FUEL 2 DAY EVAR (BUTANE LOAD) 2 = FEP FUEL 2 DAY EVAR (BUTANE LOAD) 2 = FEP FUEL 2 DAY EVAR (BUTANE LOAD) 2 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 2 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 2 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 3 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 3 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 3 = FED FUEL 3 DAY EVAR (BUTANE LOAD) 3 = CA FUEL RUNNING LOSS 3 = CA FUEL RUNNING LOSS 3 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 3 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 3 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 4 = FED FUEL 2 DAY EVAR (HEAT TO LOAD) 4 = FED FUEL 2 DAY EVAR (HEAT TO LOAD) 4 = FED FUEL 2 DAY EVAR (HEAT TO LOAD) 4 = FED FUEL 2 DAY EVAR (HEAT TO LOAD) 4 = CA FUEL 2 DAY EVAR (HEAT TO LOAD) 4 = CA FUEL 2 DAY EVAR HAUST TEST	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWT8E (HIGHWAY TEST) 9 - HWT80 (Bumph Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SHTBACK TEST 10 = IDLE CO 15 = SHTBACK TEST 10 = HOLL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 43 = FED FUEL RUNNING LOSS 44 = FED FUEL 2 DAY EXH (FHAT TO LOAD) 45 = CA FUEL 3 DAY EXH (FHAT TO LOAD) 45 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 3 DAY E	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWY80 (60 mph Highway Test) 10 = IDLE CO 11 = COLD CO 5 = SPITBACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 33 = FED FUEL BAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL RUNNING LOSS 38 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED FUEL (DAYNG) (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EXHAUST TEST 50 = AC17 - Manual A/C Controls 51 = AC17 - Manual A/C Controls	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 175 AND LATER (W/O CAN, LOAD) 3 = HWFE (HGWAY TEST) 9 = HWY50 (80 mph Highway Test) 10 = IDLE O 11 = COLD CO 11 = COLD CO 12 = COLD CO 12 = CPL PL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL 2 DAY EVAP (BUTANE) 25 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 33 = CA FUEL RUINNING LOSS 34 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CA FUEL S DAY EVAP (BUTANE LOAD) 35 = CA FUEL S DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 2 DAY EVAP (HEAT TO LOAD) 44 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EVAHAUST TEST 52 = FED FUEL 50 DEG(F) EVAHAUST TEST 52 = FED FUEL 50 DEG(F) EVAHAUST TEST 54 = FED FUEL 50 DEG(F) EVAHAUST TEST 54 = FED FUEL 50 DEG(F) EVAHAUST TEST 55 = CAFUEL 50 DEG(F) EVAHAUST TEST 54 = CAFUEL 50 DEG(F) EVAHAUST TEST 54 = CAFUEL 50 DEG(F) EVAHAUST TEST 55 = CAFUEL 50 DEG(F) EVAHAUST TEST 54 = FED FUEL 50 DEG(F) EVAHAUST TEST 55 = CAFUEL 50 DEG(F) EVAHAUST TEST 55 = CAFUEL 50 DEG(F) EVAHAUST TEST 55 = CAFUEL 50 DEG(F) EVAHAUST TEST 54 = CAFUEL 50 DEG(F) EVAHAUST TEST 55 = CAFUEL 50 DEG(F) EVAHAUST	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity Z=CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWFE (HIGHWAY TEST) 9 - HWY80 (30 mph Highway Test) 10 = IDLE CO 11 = COL CO 15 = SPITEACK TEST 16 + Hol 1435 LA92 21 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 24 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 25 = CAPUEL 2 DAY EVAP (BUTANE LOAD) 25 = CAPUEL 2 DAY EVAP (BUTANE LOAD) 21 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 33 = CAPUEL 3 DAY EVAP (BUTANE LOAD) 34 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CAPUEL 2 DAY EVAP (HEAT TO LOAD) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CAPUEL 3 DEG(F) EXHAUST TEST 55 = CAPUEL 50 DEG(F) EXHAUST TEST 55 = CAPUEL 50 DEG(F) EXHAUST TEST 56 = Evap Cansier Bited Test 56 = Evap Cansier Steed Test	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWY80 (80 mph Highway Test) 10 = IDLE CO 11 = COLD CO 5 = SPITBACK TEST 10 = IDLE CO 15 = SPITBACK TEST 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL 3 DAY EXH (BUTANE LOAD) 34 = FED FUEL RUNNING LOSS 38 = CA FUEL 2 DAY EXH (BUTANE LOAD) 34 = FED FUEL 2 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 34 = FED FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED REFUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EXHAUST TEST 50 = AC17 - Manual A/C Controls 61 = AC17 - Manual A/C Controls 61 = AC17 - Manual A/C Controls 65 = Evap CARB Fuel ONY (R0) Test 65 = Evap CARB Fuel O	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWFE (HOHWAY TEST) 9 = HWY50 (80 mph Highway Test) 10 = IDLE CO 11 = COLD CO 11 = COLD CO 12 = CPL PL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL 2 DAY EVAP (BUTANE) 25 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 33 = CA FUEL ANY EVAP (BUTANE LOAD) 35 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 44 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 44 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 46 = CA FUEL 3 DEG(F) EXHAUST TEST 52 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = CA FUEL 50 DEG(F) EXHAUST TEST 54 = CA FUEL 50 DEG(F) EXHAUST TEST 55 = CA FUEL 50 DEG(F) EXHAUST TEST 56 = LeAT FEST 57 = CA FUEL 50 DEG(F) EXHAUST TEST 58 = CA FUEL 50 DEG(F) EXHAUST TEST 59 = FUEN FUEL 50 DEG(F) EXHAUST TEST 50 = CAUT - Automaid AC CONTORS 51 = CAUT - AUTOMAID	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2= CV3 75 AND LATER (W/O CAN. LOAD) 3 - HWF8E (HIGHWAY TEST) 9 - HWY80 (30 mph Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SPHT2AG (Smph Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SPHT2AG (Smph Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SPHT2AG (Smph Highway Test) 10 = IDLE CO 11 = COLD CO 12 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 24 = FED FUEL 2 DAY EVAR (BUTANE LOAD) 25 = CA FUEL 2 DAY EVAR (BUTANE LOAD) 25 = CA FUEL 2 DAY EVAR (BUTANE LOAD) 23 = FED FUEL 3 DAY EVAR (BUTANE LOAD) 31 = FED FUEL 3 DAY EVAR (BUTANE LOAD) 32 = FED FUEL 3 DAY EVAR (BUTANE LOAD) 33 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 33 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 34 = FED FUEL 3 DAY EVAR (BUTANE LOAD) 35 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 35 = CA FUEL 3 DAY EVAR (BUTANE LOAD) 35 = CA FUEL 2 DAY EVAR (HEAT TO LOAD) 44 = FED FUEL 2 DAY EVAR (HEAT TO LOAD) 45 = FED FUEL 2 DAY EVAR (HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAR (HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAR (HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EVALUST TEST 50 = CA FUEL 50 DEG(F) EVALUST TEST 51 = CA FUEL 50 DEG(F) EVALUST TEST 52 = FED FUEL 50 DEG(F) EVALUST TEST 53 = CA FUEL 50 DEG(F) EVALUST TEST 54 = EVAP CLAB FUED (N) (R) Test 55 = CA FUEL 50 DEG(F) EVALUST TEST 55 = CA FUEL 50 DEG(F) EVALUST TEST 55 = CA FUEL 50 DEG(F) EVALUST TEST 56 = CAUT - Automatic AC Controls 51 = CA FUEL 50 DEG(F) EVALUST TEST 55 = CA FUEL 50 DEG(F) EVALUST TEST 56 = EVAR CAB FUED (N) (R) TEST 56 = LEAK TEST - FORT NAE CAB FUED (N) (R) TEST 56 = LEAK TEST - FORT NAE CAB FUED (N) (R) FEST 57 = CST TWO SPEED IDLE TEST 58 = CST FUED (SPEED IDLE TEST 59 = CST TWO SPEED IDLE TEST 50 = CST TWO SPEED IDLE TEST	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWT48 (00 mph Highway Test) 10 = Iole CO 11 = COL CO 15 = SPITBACK TEST 10 = Iole CO 15 = SPITBACK TEST 12 = CLD CO 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 1 DAY EXH (BUTANE LOAD) 32 = FED FUEL 1 DAY EXH (BUTANE LOAD) 33 = FED FUEL 1 DAY EXH (BUTANE LOAD) 34 = FED FUEL 1 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL RUNNING LOSS 44 = FED REL (LONNING LOSS) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWFE (HOHWAY TEST) 9 = HWY50 (80 mph Highway Test) 10 = IDLE CO 11 = COLD CO 11 = COLD CO 12 = COLD CO 12 = CFD FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL 2 DAY EVAP (BUTANE) 25 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 32 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 33 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 34 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CA FUEL ANY EVAP (BUTANE LOAD) 35 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 43 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 44 = FED FUEL 2 DAY EVAP (HEAT TO LOAD) 44 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 46 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 47 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = CA FUEL 50 DEG(F) EXHAUST TEST 54 = CA FUEL 50 DEG(F) EXHAUST TEST 55 = CA FUEL 50 DEG(F) EXHAUST TEST 56 = LeAT FEST 57 = CA FUEL 50 DEG(F) EXHAUST TEST 58 = CA FUEL 50 DEG(F) EXHAUST TEST 59 = CAT FUEL 50 DEG(F) EXHAUST TEST 50 = LEAT FEST 50 = CAT FUEL 50 DEG(F) EXHAUST TEST 50 = CAT FUEL 50 DEG(F) EXHAUST TEST 50 = CAT FUEL 50 DEG(F) EXHAUST TEST 50 = CAT FUEL 50 DEG(F) EXHA	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 + UWFE (HIGHWAY TEST) 9 = HWY80 (B mph Highway Test) 10 = DibLe CO 11 = SPITBACK TEST 11 = SPITBACK TEST 12 = FED FUEL 2 DAY EVA (BUTANE LOAD) 23 = FED FUEL 2 DAY EVA (BUTANE LOAD) 24 = FED FUEL 2 DAY EVA (BUTANE LOAD) 25 = CA FUEL 2 DAY EVA (BUTANE LOAD) 31 = FED FUEL 2 DAY EVA (BUTANE LOAD) 32 = FED FUEL 3 DAY EVA (BUTANE LOAD) 33 = FED FUEL 3 DAY EVA (BUTANE LOAD) 34 = FED FUEL 3 DAY EVA (BUTANE LOAD) 35 = CA FUEL 3 DAY EVA (BUTANE LOAD) 37 = CA FUEL 3 DAY EVAP(BUTANE LOAD) 38 = CA FUEL 3 DAY EVAP(BUTANE LOAD) 38 = CA FUEL 3 DAY EVAP(HEAT TO LOAD) 41 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 42 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 43 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 44 = FED FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = FED FUEL 50 DEG(F) EXHAUST TEST 52 = FED FUEL 50 DEG(F) EXHAUST TEST 53 = CA FUEL 50 DEG(F) EXHAUST TEST 54 = FED FUEL 50 DEG(F) EXHAUST TEST 55 = CAFUEL 50 D	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity Z - CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWT8E (HIGHWAY TEST) 9 - HWY80 (B mph Highway Test) 10 = IDLE CO 11 = COLD CO 5 = SHTBACK TEST 10 = IDLE CO 12 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL REFUEL (ORVR) (BUTANE LOAD) 25 = CA FUEL 3 DAY EXH (BUTANE LOAD) 25 = CA FUEL 3 DAY EXH (BUTANE LOAD) 25 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL RUNNING LOSS 43 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED FUEL (DNNING HEAT TO LOAD) 45 = CA FUEL 3 DAY EXH (BUTANE LOAD) 55 = CA FUEL 3 DAY EXH (BUTANE LOAD) 55 = CA FUEL 3 DAY EXH (BUTANE LOAD) 55 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 3 DAY EXH (HEAT FUEL SUB ESC) 51 = CA FUEL 3 DE ESC (FUEL SUB ESC) 51 = CA FUEL 3 CA FUEL 3 CA FUEL 3 DE ESC (FUEL SUB ESC) 51 = CA FUEL 3 CA FUEL 3 CA FUEL 3 CA FUEL 3 CA FUE	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 CVS 75 AND LATER (W/O CAN. LOAD) 3 + HWFE (HIGHWAY TEST) 9 + HWY80 (B mph Highway Test) 10 = IDLE CO 11 = COLD CO 15 = SPITBACK TEST 16 + HO1 435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 33 = FED FUEL 3 DAY EXH (BUTANE LOAD) 34 = FED FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL 2 DAY EXH (BUTANE LOAD) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EXHAUST TEST 50 = AC17 - Manual A/C Controls 61 = AC17 - Aunual A/C Controls 65 = Evap CARB Fuel ONY (Rig) Test 65 = Evap CARB Fuel ONY (R	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity 2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 + UWFE (HIGHWAY TEST) 9 = HWY90 B0 mph Highway Test) 11 = 50 PTBACK TEST 11 = 50 PTBACK TEST 12 = FED FUEL 2 DAY EVA (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 24 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 25 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 25 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD) 32 = FED FUEL 3 DAY EXH (BUTANE LOAD) 33 = CA FUEL DAY EVAP (BUTANE LOAD) 33 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 34 = FED FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CA FUEL 3 DAY EVAP (BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD) 43 = FED FUEL 3 DAY EXH (BUTANE LOAD) 43 = FED FUEL 3 DAY EXH (BUTANE LOAD) 43 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = FED FUEL 50 DEG(F) EXHAUST TEST 53 = CA FUEL 50 DEG(F) EXHAUST TEST 54 = CAFUEL 50 DEG(F) EXHAUST TEST 55 = CAFUEL 50 DEG(F)	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity Z = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWF8E (HIGHWAY TEST) 9 = HWY8E (BIGHWAY TEST) 10 = IDLE CO 11 = COLD CO 15 = SPITEACK TEST 16 = Hot 1435 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 22 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 26 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 28 = FED FUEL 3 DAY EXH (BUTANE LOAD) 39 = CA FUEL 2 DAY EXH (BUTANE LOAD) 41 = FED FUEL 2 DAY EXH (BUTANE LOAD) 42 = FED FUEL 2 DAY EXH (BUTANE LOAD) 41 = FED FUEL 2 DAY EXH (BUTANE LOAD) 42 = FED FUEL 2 DAY EXH (BUTANE LOAD) 43 = CA FUEL 2 DAY EXH (BUTANE LOAD) 44 = FED FUEL 2 DAY EXH (BUTANE LOAD) 45 = CA FUEL 2 DAY EXH (BUTANE LOAD) 45 = FED FUEL 2 DAY EXH (BUTANE LOAD) 45 = FED FUEL 2 DAY EXH (BUTANE LOAD) 45 = FED FUEL 2 DAY EXH (BUTANE LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (FEAT TO LOA	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c
CNG - Compressed Natural Gas LNG - Liquified Natural Gas LNG - Liquid Petroleum Gas H - Hydrogen EL - Electricity Z CVS 75 AND LATER (W/O CAN. LOAD) 3 - HWYE (HIGHWAY TEST) 9 - HWY80 (60 mph Highway Test) 10 = IDLE CO 11 = COLD CO 25 = SPHTBACK TEST 15 = Hot 143 LA92 21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EXH (BUTANE LOAD) 24 = FED FUEL 2 DAY EXH (BUTANE LOAD) 25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EXH (BUTANE LOAD) 31 = FED FUEL REFUEL (ORVP) (BUTANE LOAD) 32 = FED FUEL RUNNING LOSS 34 = FED FUEL RUNNING LOSS 38 = CA FUEL 3 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 35 = CA FUEL 2 DAY EXH (BUTANE LOAD) 43 = FED FUEL RUNNING LOSS 44 = FED REFUEL (ORVP) (BUTANE LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 44 = FED REFUEL (DAYN) (FEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 45 = CA FUEL 2 DAY EXH (HEAT TO LOAD) 51 = CA FUEL 50 DEG(F) EXHAUST TEST 52 = FED FUEL (ONVR) (RU) TEST 53 = CA FUEL 50 DEG(F) EXHAUST TEST 54 = CAT - Manual A/C Controls 54 = EAU CAT - Manual A/C Controls 55 = EVAD CAUSER BHED FUEL (FARS (THEST 56 = LEAK TEST - FOUT HEAT COMED 57 = LEAK TEST - FOUT HEAT COMED 57 = LEAK TEST - FOUT HEAT COMED 57 = LEAK TEST - FOUT HEAT COMED 58 = LEAK TEST - FOUT HEAT COMED 59 = LEAK TEST - FOUT HEAT COMED 50 =	Light-Duty	Certification	Multi-fueled vehicles will have at least one test # for each fuel type/test category combination.	Manufacturer	Front End	XML	LD-CERT-TG-IBR002c

				Verify Light-Duty Data Requirem	ents				
								LD-CERT-TG-BR064b LD-CERT-TG-BR064c	
	4 = 4,000 miles							LD-CERT-TG-BR065b LD-CERT-TG-BR066	
	50 = 50,000 miles 100 = 100,000 miles							LD-CERT-TG-BR215 LD-CERT-TG-BR216	
	120 = 120,000 miles 150 = 150,000 miles	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR217 LD-CERT-TG-BR218	
	HC-TOTAL (Total Hydrocarbon) HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) CC (Carbon Monoxide)								
	CO2 (Carbon Dioxide) CREE (Carbon-Related Exhaust Emissions) OPT-CREE (Optional Carbon-Related Exhaust Emissions)								
	PMC (Nintogen Oxides) PM (Particulate Matter) PM-COMP (SFTP Composite Particulate Matter)								
	DMHCE (Organic material Hydrocarbon equivalent) OMHCH (Organic material non-methane Hydrocarbon equivalent) NMOG (Non-methane organic nases (California))								
	HCHO (Formaldehyde) H3C2HO (Acetaldehyde) H3C2HO (Acetaldehyde)								
	HC-NM+NOX-COMP (SFTP Composite Non-methane Hydrocarbon+Nitrogen Oxides) CO-COMP (SFTP Composite Carbon Monoxide) NMOG+NOX (Non-methane Organic Gases Plus Nitrogen Oxides)								
	NMOG+NOX-COMP (SFTP Composite Non-methane Õrganic Gases Plus Nitrogen Oxides) ETHANOL (C2H5OH- Ethanol) FE BAG I (Bag I Fuel Economy)								
	FE BAG 2 (Bag 2 Fuel Economy) FE BAG 3 (Bag 3 Fuel Economy) FE BAG 4 (Bag 4 Fuel Economy)								
	CO2 BAG 1 (Bag 1 Carbon Dioxide) CO2 BAG 2 (Bag 2 Carbon Dioxide) CO2 BAG 3 (Bag 3 Carbon Dioxide)								
	CO2 BAG 4 (Bag 4 Cardon Dioxide) MRF RE (Manufacturer Fuel Economy) HC (Hydrocarbon for Running Loss and ORVR) MCTHANE (CHA) (Methana)								
	METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only) METHANOL (CH30H) (Methanol) N20 (Nitrous Oxide)								
	N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only) SPITBACK (Spitback Hydrocarbon in grams) DT-WRR (Drive Trace Inertia Work Ratio Rating)							LD-CERT-TG-BR064a LD-CERT-TG-BR065a	
	DT-ASCR (Drive Trace Absolute Speed Change Rating) DT-EER (Drive Trace Energy Economy Rating) LEAK-DIA - Effective Leak Diameter (inches)							LD-CERT-TG-BR097 LD-CERT-TG-BR099	
	LEAK-GAS CAP - Gas Cap Leakage (cc/min) Allowed Eor Charge Depleting Test Procedures Only:							LD-CERT-TG-BR176 LD-CERT-TG-BR188	
	AMP-HRS (integrated Amp-hours) START-SOC (System Start State of Charge Watt-hours) END-SOC (System End State of Charge Watt-hours) ACT DISTANGE (Adveto Biotegna Driver (winch)							LD-CERT-TG-BR203 LD-CERT-TG-BR204	
	AS-VOLT (Average System Voltage)	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR214	
000 0000		Light-Duty	Cortification		Vorify	Backand	Assigned		
555.5555		Light Duty	Certification		Veniy	Dackend	Assigned		
		Light-Duty	Certification		Manufacturer	Front End	XML		
	MFRA = Mfr. Assigned								
	EPAA = EPA Assigned MFRD = Mfr. Determined								
	AGED = Aged components installed In the emission data vehicle	Light-Duty	Certification		Manufacturer	Front End	XML		
	Y = Yes								
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML		

			1	Weith High Date Deter	adata		1 1	
				verity Light-Duty Data Requirem	IEIILS			
			0.17					
9.99		Light-Duty	Certification		Manufacturer	Front End	XML	
0.000000			0.10					LD-CERT-TG-BR188
9.999999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR203
								LD-CERT-TG-BR188
9.999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR203
9.999999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR077
9.999999		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR078
				use for NMOG. Methane.				
				Note: for Tier 2 (Bin 1-11) emissions it will be defaulted to				
99,999		Light-Duty	Certification	1.0 for NMOG and 0.0 for Methane	Manufacturer	Front End	XML	
		Light-Duty	Certification		Manufacturer	Front End	XML	
								I D-CERT-TG-BP084
								LD-CERT-TG-BR090
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR104
	CA - California + CAA Soction 177 states							
	FA = Federal	Light-Duty	Certification		Manufacturer	Front End	ХМІ	LD-CERT-TG-BR095a

			Verify Light-Duty Data Requirem	nents			
C = Certification							
IU = In-Use							
	Light-Duty	Certification		Manufacturer	Front End	XMI	
	Light Duty	Certification		Manuacturer	THOM: End		
T1 - Federal Tier 1 Evap							
T2 - Federal Tier 2 Evap							
T3 - Federal Tier 3 Evap							
13-32 - Federal Tier 3 LEV-III Zero Evap (Option 1) Carryover							
FZ - Feueral LEV-II EVap							
77 - California LEV-II Evap							
3Z = California LEV-III Zero Evap (Ontion 1)							
4Z = California LEV-III Zero Evap (Option 2)			T1 previously called ENHA in CFEIS				
HD-2D = Federal Heavy-Duty 2-Day Evap (1.75 grams)							
HD-3D = Federal Heavy-Duty 3-Day Evap (1.4 grams)			NEW Business Rule : 'T3-3Z' is not allowed for Model				
OT = Other	Light-Duty	Certification	Year (TG-6) 2022 and later.	Manufacturer	Front End	XML	LD-CERT-TG-BR207
G - Gasoline							
D - Diesel							
M - Methanol							
E - Ethanol							
CNG - Compressed Natural Gas							
LNG - Liquified Natural Gas							
LPG - Liquid Petroleum Gas							
FL - Electricity	Light-Duty	Cortification		Manufacturor	Front End	YMI	
2 = CVS 75 AND LATER (W/O CAN. LOAD)	Light Duty	Certification		Manadatarer	THOM: End		ED-CERTIFICIBIL0020
3 = HWFE (HIGHWAY TEST) 9 = HWY80 (80 mph Highway Test)							
10 = IDLE CO							
11 = COLD CO 15 = SPITBACK TEST							
16 = Hot 1435 LA92							
21 = FED FUEL 2 DAY EXH (BUTANE LOAD) 23 = FED FUEL 2 DAY EVAR (BUTANE)							
24 = FED FUEL REFUEL (ORVR) (BUTANE)							
25 = CA FUEL 2 DAY EXH (BUTANE LOAD) 27 = CA FUEL 2 DAY EVAP (BUTANE LOAD)							
31 = FED FUEL 3 DAY EXH (BUTANE LOAD)							
32 - FED FUEL RUNNING LOSS							
35 = CA FUEL 3 DAY EXH (BUTANE LOAD)							
37 = CA FUEL RUNNING LOSS 38 = CA FUEL 3 DAX EVAR (BUTANE LOAD)							
41 = FED FUEL 2 DAY EXH(HEAT TO LOAD)							
43 = FED FUEL 2DAY EVAP(HEAT TO LOAD)							
45 = CA FUEL 2 DAY EXH (HEAT TO LOAD)							
47 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 51 = CA FUEL 50 DEC(5) EXHAUST TEST							
52 = FED FUEL 50 DEG(F) EXHAUST TEST							
60 = AC17 - Manual A/C Controls							
64 = Evap CARB Fuel Only (Rig) Test							
65 = Evap Canister Bleed Test							
67 = Leak Test - Evap Fuel System OBD 67 = Leak Test - Port Near Canister							
68 = Leak Test - Port Near Fuel Pipe							
by = Leak Lest - Evap Gas Cap 72 = CST TWO SPEED IDLE TEST							
76 = CST PRECD 2 SPD IDLE (EPA ONLY)							
81 = Charge Depleting UDDS 83 = Charge Depleting US06							
84 = Charge Depleting Highway							
85 = Charge Depleting SC03 86 = Charge Depleting 20 Degree E ETP							
	1						
87 = A/C Idle Lest- Manual A/C	1						
87 = A/C Idle Test- Manual A/C 88 = A/C Idle Test- Automatic A/C 00 = LISO6							
87 = A/C Idle Test- Manual A/C 88 = A/C Idle Test- Automatic A/C 90 = US06 95 = SC03							
87 = A/C tote Lest- Manual A/C 88 = A/C ldte Test- Automatic A/C 90 = US06 95 = SC03 96 = US06 Bag 2 Only	Light-Duty	Certification		Manufacturer	Front end	XMI	

				Verify Light-Duty Data Requirem	nents			
	4 = 4.000 miles							
	50 = 50,000 miles							
	100 = 100,000 miles 120 = 120.000 miles							
	150 = 150,000 miles							
		Light-Duty	Certification		Manufacturer	Front End	XML	
	HC-TOTAL (Total Hydrocarbon) HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) CO (Carbon Monovide)							
	CO2 (Carbon Dioxide) CREE (Carbon-Related Exhaust Emissions)							
	OPT-CREE (Optional Carbon-Related Exhaust Emissions) NOX (Nitrogen Oxides)							
	PM (Particulate Matter) PM-COMP (SFTP Composite Particulate Matter) HC-NM (Non-methane Hydrocarbon)							
	OMHCE (Organic material Hydrocarbon equivalent) OMNMHCE (Organic material hydrocarbon equivalent)							
	NMOG (Non-methane organic gases (California)) HCHO (Formaldehyde) 42CHO (costaldehyde)							
	HC-NM+NOX (SFTP Non-methane Hydrocarbon+Nitrogen Oxides for US06 or SC03) HC-NM+NOX-COMP (SFTP Composite Non-methane Hydrocarbon+Nitrogen Oxides)							
	CO-COMP (SFTP Composite Carbon Monoxide) NMOG-NOX (Non-methane Organic Gases Plus Nitrogen Oxides)							
	ETHANOL (C2H5OH- Ethanol) ETHANOL (C2H5OH- Ethanol) FE BAG 1 (Bag 1 Fuel Economy)							
	FE BAG 2 (Bag 2 Fuel Economy) FE BAG 3 (Bag 3 Fuel Economy)							
	FE BAG 4 (Bag 4 Fuel Economy) CO2 BAG 1 (Bag 1 Carbon Dioxide) CO2 BAG 2 (Bag 2 Carbon Dioxide)							
	CO2 BAG 3 (Bag 3 Carbon Dioxide) CO2 BAG 3 (Bag 3 Carbon Dioxide) CO2 BAG 4 (Baa 4 Carbon Dioxide)							
	MFR FE (Manufacturer Fuel Economy) HC (Hydrocarbon for Running Loss and ORVR)							
	METHANE (CH4) (Methane) METHANE-COMB (Combined CH4 for HD 2b/3 vehicles only) METHANCI (CH2OH) (Methane)							
	N2O (Nitrous Oxide) N2O (Nitrous Oxide) N2O-COMB (Combined Nitrous Oxide for HD 2b/3 vehicles only)							
	SPITBACK (Spitback Hydrocarbon in grams) DT-IWRR (Drive Trace Inertia Work Ratio Rating)							
	DT-ASCR (Drive Trace Absolute Speed Change Rating) DT-EER (Drive Trace Energy Economy Rating)							
	LEAK-GAS CAP - Gas Cap Leakage (cc/min)							LD-CERT-TG-BR095a
	Allowed For Charge Depleting Test Procedures Only: AMP-HRS (Integrated Amp-hours)			CREE and Ont-CREE are not valid values here. Need to a				LD-CERT-TG-BR095b
	START-SOC (System Start State of Charge Watt-hours) END-SOC (System End State of Charge Watt-hours) ACT-DISTANCE (Actual Distance Driven (miles))			business rule that doesn't allow CREE or Opt-CREE to be				LD-CERT-TG-BR100
	AS-VOLT (Average System Voltage)	Light-Duty	Certification	selected here as a standard or DF.	Manufacturer	Front End	XML	LD-CERT-TG-BR161
				Note: The system shall support the entry of emission				
				standards by the user and may additionally provide default	:			
999 999		Light-Duty	Certification	values if EPA has applicable standards. Insert emission standard numerical value	Verify	Back	Assigned	
		Light Duty	Serundulon			End	Assigned	
					Manufactuer	Front End	XML	
	MFRA = Mfr. Assigned							
	MFRD = Mfr. Determined							
	AGED = Aged components installed In the emission data vehicle	Light-Duty	Certification		Manufacturer	Front End	ХМІ	
		Light Duty	Serundulon					
0.00000		Light-Duty	Certification		Manufacturer	Front End	XML	

	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR056 LD-CERT-TG-BR092
	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR088 LD-CERT-TG-BR091 LD-CERT-TG-BR189 LD-CERT-TG-BR211
NE = Not Exempt SBA = Small Business Administration Exemption CE = Conditional Exemption	Light-Duty	Certification	The pull-down list should be displayed in this order: NE, SBA, CE. This field will determine whether Verify calculates CREE and optional CREE and determine whether the GHG- specific Test ResultS-Emission Names are required	Manufacturer	Front End	XMI	LD-CERT-TG-IBR004
TIER2 = Tier 2 TIER3 = Tier 3 NA = Not Applicable	Light-Duty	Certification	New BR: SFTP Compliance Indicator (TG-216.8) and SFTP Tier 3 Compliance Indicator (TG-260) cannot both equal 'Y' (Yes). Data element has been changed.	Manufacturer	Front End	XML	
Y = Yes N = No	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR061
Y = Yes			NOTE: If this field equals 'Y' the LEVIII SFTP calculations should be triggered. These calculations are: NMOG + NOx Composite (for Test Result/Emission Name 'NMOG+NOX- COMP') and CO Composite (same as current CO Composite calculation). EPA and CSC need to discuss details.				
N = NO	Light-Duty	Certification	* This field may not be necessary.	Manufacturer	Front End	XML	

				ents			LD-CERT-TG-BR057 LD-CERT-TG-BR062a
							LD-CERT-TG-BR063a LD-CERT-TG-BR064b LD-CERT-TG-BR064c LD-CERT-TG-BR065b
							LD-CERT-TG-BR080a LD-CERT-TG-BR080a LD-CERT-TG-BR143 LD-CERT-TG-BR144
			**Note: Need to modify existing business rules for Tier 3. For example, if Tier SFTP Tier 3 Compliance Indicator (TG- 20) is organize by V(cop) theo Nonco is required (or				LD-CERT-TG-BR145 LD-CERT-TG-BR190 LD-CERT-TG-BR192 LD-CERT-TG-BR215
	Light-Duty	Certification	NMHC and Ratio of NMOG/NMHC (TG-207) is required.	Manufacturer	Front End	XML	LD-CERT-TG-BR210
G - Gasoline D - Diesel M - Methanol E - Ethanol CNG - Compressed Natural Gas							LD-CERT-TG-IBR002b
LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity	Light-Duty	Certification	**Note: Need to determine whether existing business rules need to be modified for Tier 3 SFTP compliance. For example, SFTP compliance is required for alternative fuels (other than electricity).	Manufacturer	Front End	XML	LD-CERT-TG-BR158 LD-CERT-TG-BR160 LD-CERT-TG-BR190 LD-CERT-TG-BR191
G - Gasoline D - Diesel M - Methanol							
E - Ethanol CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen							
 EL - Electricity	Light-Duty	Certification		Manufacturer	Front End	XML	
			**Note: Need to modify existing business rules to allow new				LD-CERT-TG-BR059
			Heavy-Duty Class 3 and 2b test procedures '16' and '96' as one of the official US06 test procedures, if necessary.				LD-CERT-TG-BR062b LD-CERT-TG-BR063b LD-CERT-TG-BR080b LD-CERT-TG-BR156
	Light-Duty	Certification	example, if Tier SFTP Tier 3 Compliance Indicator (TG-260) is equal to 'Y' (Yes) then NMOG is required (or NMHC and Ratio of NMOG/NMHC (TG-207) is required.	Manufacturer	Front End	XML	LD-CERT-TG-BR190 LD-CERT-TG-BR193 LD-CERT-TG-BR242

				ents			
							LD-CERT-TG-BR060
							LD-CERT-TG-BR062c
							LD-CERT-TG-BR063c
							LD-CERT-TG-BR080c
							LD-CERT-TG-BR146
							LD-CERT-TG-BR185
			**Note: Need to modify existing business rules for Tier 3. For				LD-CERT-TG-BR190
			example if Tier SETP Tier 3 Compliance Indicator (TG-260) is				LD-CERT-TG-BR194
			equal to 'Y' (Yes) then NMOG is required (or NMHC and Ratio of				LD-CERT-TG-BR231
	Light-Duty	Certification	NMOG/NMHC (TG-207) is required.	Manufacturer	Front End	XML	LD-CERT-TG-BR244
							ID CEDT TO PD149
							LD CERT TO PD140
							LD-CERT-TG-BR149
		Cortification		Monufacturar	Front End	VAI	LD-CERT-TG-BR190
	Light-Duty	Certification		Manufacturer	FIONLENU	XIVIL .	LD-CERT-TG-BR195
							LD-CERT-TG-BR150
							LD-CERT-TG-BR151
							LD-CERT-TG-BR190
							LD-CERT-TG-BR191
	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR196
C. Capalina							
D - Diesei							
M - Methanol							
CNG - Compressed Natural Gas							
LNG - Liquilled Natural Gas							
LPG - Liquid Petroleum Gas			ttNoto: Nood to odd business subs for this ITest Or				
n - nyurogen			Final CETE LEV (III) field and business rules for this Test Group				
	1.	0.00	Fuel - SFTP LEV-III field similar to the business rules for	1			
HYD - Hydraulic	Light-Duty	Certification	"Test Group Fuel" (TG-217.1).	Manufacturer	Front End	XML	LD-CERT-TG-BR210
							LD-CERT-TG-BR065c
							LD-CERT-TG-BR209
			**Note: Need to add business rules for this 'Official SETP				LD-CERT-TG-BR213
			LEV-III FTP Test Number' field similar to the business				LD-CERT-TG-BR217
			rules for Official FTP test number (TG-217) For example				LD-CERT-TG-BR218
			if SETP LEV/III Compliance Indicator (TG-261) is equal to				LD-CERT-TG-BP210
			Y' (Yes) then NOx is required and NMOC (or NMHC and				LD-CERT-TG-BP228
			Ratio of NMOG/NMHC (TG-207)) is required				
	Light-Duty	Certification		Manufacturor	Front End	XMI	
	Light-Duty	Scruncation		manufacturer	THORE LINU	XIVIL	
			**Note: Need to add business rules for this 'Official SETP				
			LEV-III US06 Test Number' field similar to the business				LD-CERT-TG-BR225
			rules for Official US06 Test Number (TG-218) For				LD-CERT-TG-BR226
			example if SETP EV/III Compliance Indicator (TC-261) is				LD-CERT-TG-BP220
			equal to 'Y' (Yes) then NOv is required and NMOC (or				
	Light-Duty	Certification	NMHC and Ratio of NMOG/NMHC (TG-207)) is required	Manufacturer	Front End	XMI	LD-CERT-TG-BR243

72351601 TG+

	Light-Duty	Certification	**Note: Need to add business rules for this 'Official SETP LEV-III SC03 Test Number' field similar to the business rules for Official SC03 Test Number (TG-219). For example, if SFTP LEVIII Compliance Indicator (TG-261) is equal to 'Y' (Yes) then NOx is required and NMOG (or NMHC and Ratio of NMOG/NMHC (TG-207)) is required.	Manufacturer	Front End	XML	LD-CERT-TG-BR230 LD-CERT-TG-BR236 LD-CERT-TG-BR237 LD-CERT-TG-BR246 LD-CERT-TG-BR245
	Light-Duty	Certification	2PA City Litmus Value - 0.9057 [10.33 " [10.76 " [3.6 "	Manufacturer	Front End	XML	LD-CERT-TG-BR187 LD-CERT-TG-BR191 LD-CERT-TG-BR197
			(1/FTP75B1 - 1/FTP75B3) + 3.9 * (1/FTP75B2 - 1/FTP75B4)) + 0.24 * (3.6 * (1/FTP20B1 - 1/FTP20B3))), 4.1)) + (0.82 * (0.48/FTP75B4 + 0.41/FTP75B3 + 0.11/US06B1) + 0.18 * (0.5/FTP20B2 + 0.5/FTP20B3) + 0.133 * 1.083 * (1/SC03 - (0.61/FTP75B3 + 0.39/FTP75B4)))] *** If Hybrid indicator (TG-7.2) = "Yes" and Official FTP Test Number (TG-217) DOES NOT have Test Result/Brission Name (TI-19) equal to "FE BAG 4" then: EPA City Litmus Value = 0.905 / [0.33 * (0.76 * (7.5 * (1/FTP75B1 - 1/FTP75B2)) + 0.24 * (3.6 * (1/FTP20B1 - 1/FTP20B3)) / 4.1)) + (0.82 * (0.9/FTP75B2 + 0.1/US06B1) + 0.18 * (0.5/FTP20B2 + 0.5/FTP20B3) + 0.133 * 1.083 * (1/SC03 - (1/FTP75B2))] All "RAFE" values and "FE BAG X" values should be ASTM E67 rounded to 1 decimal place before using in ANY equation listed above.				
999.9	Light-Duty	Certification	The EPA City Litmus Value should be ASTM E67 rounded to 1 decimal place.	Verify	Back End	Assigned	LD-CERT-TG-BR184 LD-FE-GL-BR118 LD-FE-GL-BR119
999.9	Light-Duty	Certification	EPA City Litmus Threshold = [1 / (CityOffset + CitySlope / FE)] x 0.96 Where: CitySlope = Derived 5C City Slope Constant (GL-180) specified for the Model Year CityOffset = Derived 5C City Offset Constant (GL-181) specified for the Model Year FE = Official City Test Number (TG-217) Test Result/Emission Name (TI-19) equal to "RAFE", ASTM E67 rounded to 1 decimal place. The resulting Litmus Threshold calculation is ASTM E-67 rounded to 1 decimal place	Verify	Back End	Assigned	LD-CERT-TG-BR152 LD-CERT-TG-BR153 LD-CERT-TG-BR154 LD-FE-GL-BR118 LD-FE-GL-BR119
	Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR186 LD-CERT-TG-BR198

			Verify Light-Duty Data Requirem	ents			
			*** If Hybrid indicator (TG-7.2) = "Yes" and Official FTP				
			Test Number (TG-217) has Test Result/Emission Name				
			(11-19) equal to "FE BAG 4" then:				
			* (1/ETP75B1 - 1/ETP75B3) + 3.9 * (1/ETP75B2 -				
			1/FTP75B4)) + 0.24 * (3.6 * (1/FTP20B1 - 1/FTP20B3))) /				
			60)) + (1.007 * (0.79/US06B2 + 0.21/HFET) + 0.133 *				
			0.377 * (1/SC03 - (0.61/FTP75B3 + 0.39/FTP75B4)))]				
			Test Number (TG-217) DOES NOT have Test				
			Result/Emission Name (TI-19) equal to "FE BAG 4" then:				
			EPA Highway Litmus Value = 0.905 /[(0.33 * ((0.76 * (7.5				
			* (1/FTP75B1 - 1/FTP75B2)) + 0.24 * (3.6 * (1/FTP20B1 -				
			1/F1P20B3)))/60))+(1.00/*(0.79/US06B2+ 0.21/HEET)+0.122*0.277*(1/SC02-(1/ETD7EP2)))]				
			0.21/HFE1) + 0.133 * 0.377 * (1/3C03 - (1/FTF73B2)))]				
			All "RAFE" values and "FE BAG x" values should be ASTM				
			E67 rounded to 1 decimal place before using in ANY				
			equation listed above.				
			The EPA City Litmus Value should be ASTM E67 rounded				LD-CERT-TG-BR183
999.9	Light-Dutv	Certification	to 1 decimal place.	Verify	Back End	Assigned	LD-FE-GL-BR119
				, í		Ŭ	
			EPA Highway Litmus Threshold = [1 / (HwyOffset +				
			mwySlupe / FE)] X U.95				
			Where:				
			HwySlope = Derived 5C Highway Slope Constant (GL-182)				
			specified for the Model Year				
			HWYUTISET = DErived 5C Highway Utiset Constant (GL-				
			FF = Official Highway Test Number (TG-219.2) Test				
			Result/Emission Name (TI-19) equal to "RAFE", ASTM E67				
			rounded to 1 decimal place.				
			The resulting Litraus Threshold extended in ASTME 67				LD CEPT TO BD155
999.9	Light-Duty	Certification	rounded to 1 decimal place	Verify	Back End	Assigned	LD-FE-GL-BR119
						Ŭ	
9999.9999	Light-Duty	Certification		Verify	Back End	Assigned	
9999 9999	Light-Duty	Certification		Verify	Back End	Assigned	
	Light Duty				Buok Lilu	, asigned	<u> </u>
9999.9999	 Light-Duty	Certification		Verify	Back End	Assigned	
9999.9999	Light-Duty	Certification		Verify	Back End	Assigned	
0000 0000	Light Dut	Contification		Vorifi	Deals First	Appigned	
9999.9999	Light-Duty	Certification		verily	васк Епо	Assigned	
				Varie.	Deals Field	A	
9999 0000	Light-Duty	Certification		IVernv	Back End	Accidinad	

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				Verify Light-Duty Data Requirem	ents			
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999		Light-Duty	Certification	Verify should calculate cert levels	Verify	Back End	Assigned	
				Verify will compare the Calculated Cert Level with the				
				corresponding standard and will set the Pass/Fail Indicator				
				to "Pass" if the Calculated Cert Level is less than or equal				
				to the standard, otherwise it will be set to "Fail". A				
				certificate will not be issued for any CSIs that contain a				
				"Fail".				
	Pass = Cert Level <= Standard							
	Fail = Cert Level > Standard	Light-Duty	Certification	Pass/Fail will not be determined for: CREE/OP1-CREE.	Verify	Back End	Assigned	
				1		1		
		1						
0000.0000000			Octification		Verifi	Deal Sed	Accient	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty	Certification	Must use ASTM rounding methodology.	Verify	Back End	Assigned	
9999.9999999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End Back End	Assigned	
9999.9999999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End Back End	Assigned	
<u>9999.9999999</u>		Light-Duty Light-Duty	Certification Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End Back End	Assigned	
9999.9999999 9999.99999		Light-Duty Light-Duty	Certification Certification	Must use ASTM rounding methodology.	Verify Verify	Back End Back End	Assigned	
9999.9999999 9999.99999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End Back End	Assigned	
9999.9999999 9999.9999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End Back End	Assigned	
9999.9999999 9999.9999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End Back End	Assigned	
9999.9999999 9999.9999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels	Verify Verify	Back End	Assigned	
9999.9999999 9999.99999		Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels Verify will compare the Calculated Cert Level with the corresponding standard and will set the Pass/Fail Indicator to "Pass" if the Calculated Cert Level is less than or equal to the calculated Cert Level is less than or equal	Verify Verify	Back End Back End	Assigned	
9999.9999999 9999.9999	Pass - Cort Level <- Standard	Light-Duty Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels Verify will compare the Calculated Cert Level with the corresponding standard and will set the Pass/Fail Indicator to "Pass" if the Calculated Cert Level is less than or equal to the standard, otherwise it will be set to "Fail". A certificate contein a	Verify Verify	Back End	Assigned	
9999.9999999 9999.99999	Pass = Cert Level <= Standard Fail = Cort Level <= Standard	Light-Duty	Certification	Must use ASTM rounding methodology. Verify should calculate cert levels Verify will compare the Calculated Cert Level with the corresponding standard and will set the Pass/Fail Indicator to "Pass" if the Calculated Cert Level is less than or equal to the standard, otherwise it will be set to "Fail". A certificate will not be issued for any CSIs that contain a "cair"	Verify Verify	Back End	Assigned	

					hate			
					FILS			
				This field will automatically be filled based on the test				
				procedure (in "Test" section) associated with the test				
				number.				
				A valid test number is required for these test categories.				
				EVAP = 23, 27, 34, 38, 43, 47				
	FTP = Federal Test Procedure			FTP = 2, 11, 21, 25, 31, 35, 41, 45, 51, 52				
	US06 = US06			HWY = 3				
	SC03 = SC03			HWYRNG = 63				
	HWY = Highway NOx			NCNHE = $9, 10, 72, 76$				
	EVAP = Evaporative			ORVR = 24, 32, 37, 44				
	SPIT = Spithack			SC03 = 95				
	ORVR = On-hoard Refueling Vanor Recovery			SPIT = 15				
	NCNHE - Non-City, Non-Highway Exhaust			LIDBDNG = 62				
	UPRPNG - Urban Pango							
	HM/VPNC - Highway Pango			Δ/C Idle = 60, 61, 87, 88				
	AC IDI E = A/C Idle Test			r_{VC} (uic = 00, 01, 07, 00 Charge Depleting = 91, 92, 94, 95, 96				
	AC-IDLE - A/C IULE TESL			C_{1} C C C C C C C C C C C C C C C C C C C				
	CD - Charge Depleting		Contification	EVAR-CUIVIP - 04, 00				
	EVAP-COMP = Evaporative - Component		Certification	EVAP-LEAK = 00, 07, 08, 09	V a vite i	Deals 5 of	Des suisting Date	
	EVAP-LEAK = Evaporative - Leak	Light-Duty	l est Data		verity	Back End	Pre-existing Data	
				CarlineMfr Code + Model Year + Division Code + Carline				
				Code identify a unique carline				
				The carline mfr code can/will be different than the mfr				
				code in TG-1 (Parent = Test Group Identification Details)				
				code in 10-1 (Fareni – Test Group Identification Details).				
				Nets. The entire act of Contified Medale lafe south he 1 is				
				note- the entitle set of Certified Models into must be 1				
			Contification	So need to delete minoccurs = 0° mon	Monufacture	Front Find	VA	
		Light-Duty	Certification	CertifiedModelsDetails in schema.	Manufacturer	⊢ront End	XML	LD-CERT-TG-BR089
				Carline Mfr Code + Model Year + Division Code + Carline				
99		Light-Duty	Certification	Code identify a unique carline.	Manufacturer	Front End	XML	LD-CERT-TG-BR089
				Carline Mfr Code + Model Year + Division Code + Carline				
999		Light-Duty	Certification	Code identify a unique carline.	Manufacturer	Front End	XML	LD-CERT-TG-BR089
		1 1					1	
	CA = California + CAA Section 177 states							
	CA = California + CAA Section 177 states	Light Duty	Cortification		Manufacturor	Front End	YM4	

				Verify Light-Duty Data Requirem	ents			
	A = Automatic AM = Automated Manual							
	M = Manual							
	SA = Semi-Automatic CVT= Continuously Variable							
	SCV=Selectable Continuously Variable (e.g. CVT with paddles)							
	AMS= Automated Manual- Selectable (e.g. Automated Manual							
	OT = Other	Light-Duty	Certification		Manufacturer	Front End	XML	
		Light-Duty	Certification		Manufacturer	Front End	XML	LD-CERT-TG-BR068
	Y = Yes							
	N = No	Light-Duty	Certification		Manufacturer	Front End	XML	
	Y = Yes		0			E		
		Light-Duty	Certification		Manufacturer	⊢ront End	XML	
99		Light-Duty	Certification		Manufacturer	Front End	XMI	I.D.CERT-TG-BR096
			Certineauon		manufacturer			
	F = 2-wheel Drive, front							
	R = 2-wheel drive, rear							
	P = Part-time 4-wheel drive A = All wheel drive	Light-Duty	Certification		Manufacturer	Front End	XML	
				1				

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date:	2014-September-26														
Tier 3 Update (Release 15.0)															
							Basic	Data Type	Min	Мах		Total	Fraction		
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Data Type	Description	Length	Length	Pattern	Digits	al Digits	Min Value	Max Value
Fuel Economy Label Information															
		Select the desired process code for the	FuelEconomyLabel	InformationProcessCod											
GL-0.5	Process Code	current submission.	Details	e	1	1 per FE Label	A(1)	Enumeration							
	Model Type Information (A Model	Type is defined as "a unique combination	of Carline, Basic E	ngine and Transmissio	n Class")										
		Enter the Manufacturer-assigned index													
		number for this model type. It is used as a	Submission/												
		link to the data set that is associated with	FuelEconomyLabel	ModelTypeIndexNumb											
GL-1	Model Type Index	the label of this Model Type.	Details	er	1	1 per FE Label	N(3)	Integer						1	999
			FuelEconomyLabel												
		The three character code assigned by EPA	Submission/												
		to each manufacturer. This will be derived	FuelEconomyLabel								[A-Z0-9]				
GL-2	Manufacturer Code	from users' CDX account.	Details	EPAManufacturerCode	1	1 per FE Label	A(3)	String	3	3	{3}				
			FuelEconomyLabel												
			Submission/												
	Medal Vaar	Enter the applicable Model Year for this FE	FuelEconomyLabel	MadalVaar	1	1 per CC Lobel	NKA	Voor		4				1057	2100
GL-3	Model Year	Label.	Details	would rear	<u> </u>		11(4)	rear	4	4				1957	2100
							-								
			FuelEconomyLabel												
		Enter any additional commente regarding	Submission/												
GI -4	Manufacturer FE Label Comments	the FE Label for this Model Type		mmentText	0	1 ner EE Lahel	A(1000)	String	1	1000					
			Details		0		/(1000)	Otting	-	1000					
		A system generated field indicating the	FuelEconomyLabel												
		A system-generated neid indicating the	Submission/												
GL-6	Date Submitted	submitted to EPA.	Details		1	1 per FE Label	D(8)	Date							
						P									
											[1-2]{1}				
											[0-9]{3}				
			Submission/								[0-1][1]				
		Enter the date this model type information	FuelEconomyLabel					Date			[0-3]{1}				
GL-176	Release Date	can be released to the public.	Details	ReleaseDate	1	1 per FE Label		(YYYYMMDD)			[0-9]{1}				
	Car Line Info (Primary Key for a C	arline is "Model Yr + Carline Manufacturer	Code + Division Co	de + Carline Code")											
		Enter the carline manufacturer code for this	FuelEconomyl abel												
		FE Label. The unique combination of	Submission/												
		model year, carline manufacturer code,	FuelEconomyLabel							1					
		division code and carline code must exist in	Details/	EDAMA A MARKED A		1					[A-Z0-9]				
GL-10	Carline Manufacturer Code	a certified test group.	CarlineDetails	EPAManutacturerCode	1	1 per FE Label	A(3)	String	3	3	{3}				
		Enter the division code for this FE Label.	FuelEconomyLabel							1					
		The unique combination of model year,	Submission/							1					
		carline manufacturer code, division code	FuelEconomyLabel												
CI -11	Division Code	and carline code must exist in a certified	Detalls/	InvanutacturerDivisionC	1	1 per EE Label	N(2)	Integer	1	2				1	00
01-11	Division Coue	licar group.	CarinieDelalis	Jouc	1	The Lanel	111(2)	плеуег	1 ¹	4				1	99

				Verify Lig	ht-Duty Data Ree	quirements								Office of Tran	sportation and Air Quality
GL-12	Carline Code	Enter the carline code for this FE Label. The unique combination of model year, carline manufacturer code, division code and carline code must exist in a certified test group.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ CarlineDetails	CarlineCode	1	1 per FE Label	N(3)	Integer	1	3			1	999	July 2014
01 12			GamileBetails		-		14(0)	integer	-	0			-	555	
GL-13.5	Test Group	Enter the applicable test group name which, a long with Engine Configuration Number, identifies the Hybrid/Combustion Engine Description (TG-26 through TG-35) and Engine Configuration information (TG- 38 through TG-52) to be used for this FE Label.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ BasicEngineDetails	TestGroupName	1	1 per FE Label	A(12)	String	12	12	[A-HJ- NPR- TV-Y1-9] {1}[A- Z0-9] {4,11} ([\\][A- Z0-9] {1,6})?				
		Enter the applicable value for the drive													
GL-13.5.1	Drive Source	fuel cell electric vehicle.	NA	NA	1	12 per FE Label	A(1)	Enumeration							
GL-13.5.2	Hybrid Indicator	Are the vehicles in this test group hybrid electric vehicles (HEVs) as defined in 40 CFR 86.1803-01?	NA	NA	1	1 per FE Label	A(1)	Enumeration							
GL-13.5.3	Fuel(s)	Enter all applicable fuels for this test group	TestVehicleInformat ionSubmission/ TestVehicleInformat ionDetails/ VehicleConfiguratio nDetails	Fuel1Identifier	1	1n per Drive Source per FE Label	A(3)	Enumeration							
GL-13.5.4	Basic fuel metering system	Enter the applicable fuel metering system type for this test group.		PrimaryFuelMeteringSy stemIdentifier	0	Once per Fuel per FE Label	A(4)	Enumeration							
02 10.0.4	Busie luci metering system	gpe for this test group.		Sterniterinier		Luber	7.(4)	Endition							
GL-13.5.5	Lean Burn Strategy Indicator	Does the fuel metering system employ lear burn strategy (e.g. to significantly improve the fuel economy of the vehicle)?	NA	NA	0	Once per Selected Fuel (TG-7.3) per FE Label	A(3)	Enumeration							-
	Multiple Fuel Storage- Separate or	If multiple fuels are selected for Fuel(s), are	<u>,</u>												
GL-13.5.6	Together	the fuels stored separately or together?	NA	NA	0	1 per FE Label	A(8)	Enumeration							4
GL-13.5.7	Multiple Fuel Combustion- Separate or Together	If multiple fuels are selected for Fuel(s), are the fuels combusted separately or together?	NA	NA	0	1 per FE Label	A(8)	Enumeration							-
GI -13 5 8	Fuel Cell Indicator	Are vehicles within this test group equipped with a Eucl Cell?	NA	NA	n	1 ner FF Lahel	A(1)	Enumeration							
01 40 5 0	Rechargeable Energy Storage	Are vehicles within this test group equipped with a rechargeable energy storage	1					Enumeration							
GL-13.5.9	System Indicator	system?	NA	NA NA	0	1 per FE Label	A(1)	Enumeration						<u> </u>]

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CL-12.5.12	Off-board Charge Capable	Select "Yes" if vehicles within this test group are equipped with an electric motor that is capable of being charged off-board the vehicle otherwise select "Not"	NA	NA	0	1 per EE Label	A(1)	Enumeration							July 2014
GL-13.3.12	Basic Engine Info -		INA	INA	0		A(1)	Enumeration							
	Hybrid/Combustion Description					01									_
GL-16	Hybrid Type	Enter the applicable type of Hybrid system for this Basic Engine for this FE Label.		HybridTypeldentifier	0	1 per FE Label	A(2)	Enumeration							
GL-17	Hybrid Type Description, if Other	Enter a description of the hybrid system for this Basic Engine for this FE Label if "Other" (OT) is selected for "Hybrid Type".		HybridTypeOtherText	0	1 per FE Label	A(100)	String	1	100					
		Franciska andia bla ania ban fa shia													
GL-18	Engine Type	Basic Engine for this FE Label.		EngineTypeIdentifier	0	1 per FE Label	A(4)	Enumeration							_
CI 10	Faring Time Description # Other	Enter a description of the engine for this Basic Engine for this FE Label for gas turbine, rankine, sterling or "other" engine		Engine Turse Other Tout	0	1 per EE Lebel	A(1000)	Ctring	1	1000					
GL-19	Engine Type Description, if Other	types.		Engine rypeOther rext	0		A(1000)	Sunny	1	1000					_
GL-20	Engine Block Arrangement	Enter the applicable engine block arrangement for this Basic Engine for this FE Label.		EngineBlockArrangeme ntldentifier	0	1 per FE Label	A(2)	Enumeration							_
GL-21	Engine Block Arrangement Description, if Other	Enter a description of the engine block arrangment for this Basic Engine for this FE Label if "other" is selected.		EngineBlockArrangeme ntOtherText	0	1 per FE Label	A(500)	String	1	500					
GL-22	Number of Cylinders/Rotors	Enter the number of cylinders or rotors for this Basic Engine for this FE Label.		CylindersOrRotorsCou nt	0	1 per FE Label	N(2)	Integer					0	20	
GL-22.1	Camless Valvetrain Indicator	Do the engines in this test group use something other than a camshaft to accuate the intake and exhaust valves?	NA	NA	1	Once per FE Label	A(3)	Enumeration							
CI 22.2	Oil Viscosity/Classification	Enter oil Viscosity and classification recommended for use in summer (e.g.100deg F ambient temp) for engines in this test group (e.g. 0W20 GF 4, 5W20 GF3, etc)	NA	NA	1		4(25)	String	1	25					
01-22.2		Enter the applicable Engine Configuration Number which, along with Test Group Name, identifies the Engine Configuration	FuelEconomyLabel Submission/ FuelEconomyLabel Dotails/	Engine Configuration Net	1	Unite per FE Label	A(23)		Ť	20					
GL-25	Engine Configuration Number	used for this FE Label.	BasicEngineDetails	mber	0	1 per FE Label	N(2)	Integer					1	99	_
		The engine displacement for this FE Label.		EngineDisplacementVa		1 por 55 l - b- '		Decimal			_		0.001	00.000	
GL-20	Engine Displacement (liters)			line	U		19(5,3)	Decimal			5	3	0.001	99.999	

			Verify Light-I	Duty Data Req	uirements .							Office of Trar	sportation and Air Quality
		Does this FE Label utilize cylinder											July 2014
		comparison referred to as variable	CylinderDeastivationInd										
GI -27	Cylinder Deactivation	displacement	icator	0	1 per EE Label	A(1)	Enumeration						
				0	2 poi : 2 2000		Enditionation						-
		The description of the cylinder deactivation	CylinderDeactivationDe										
GL-28	Cylinder Deactivation Description	technology utilized on this FE Label.	scriptionText	0	1 per FE Label	A(1000)	String	1	1000				
				0	2 001 1 2 20001	1.(2000)	Ching	-	1000				
		Does this EE Label utilize variable valve	\/ariable\/alveTimingInd										
GI -29	Variable Valve Timing	timing technology?	icator	0	1 per FE Label	A(1)	Enumeration						
				0	1 poi : 1 2 2000		Lindinordatori						-
	Variable Value Timing System	The description of the variable value timing	\/ariable\/alveTimingDo										
GL-30	Description	technology utilized on this EF Label	scriptionText	0	1 per EE Label	A(1000)	String	1	1000				
	Beschption	connology dail2ed on this i E Easei.	Scription ext	0		7.(1000)	Cinig	-	1000				-
		In this EE I shall agripped with a variable	\(orighta)(olygt)iftIndigat										
GL-31	Variable Valve Lift?	valve lift mechanism?	or	0	1 per EE Label	Δ(1)	Enumeration						
02.01			01	0		7(1)	Enumeration						-
		The state of the s											
CL 22	Variable valve Lift System	mechanism utilized on this CE Label	variablevalveLinDescri	0	1 por CE Labol	A(1000)	String	1	1000				
GL-32	Description		ptionText	0	I PEI FE LADEI	A(1000)	Sung	1	1000				-
CL 22	Number of Inlet Valves Per	The number of inlet valves per cylinder for	InletValvesPerCylinder	0	1 mar EE Label	N/(1)	latence					0	
GL-33	Cylinder	triis FE Label. O il not applicable.	Count	0	I PEL LADEI	IN(1)	Integer				 0	9	_
CL 24	Number of exhaust Valves Per	The number of exhaust valves per cylinder	ExhaustValvesPerCylin	0	1 mar FF Label	N/(1)	latence				_	0	
GL-34	Cylinder	for this FE Label. O If not applicable.	derCount	U	1 per FE Label	N(1)	Integer	-	-		 0	9	_
		The applicable air aspiration methods for	AirAspirationMethodIde										
GL-35	Air Aspiration Method	this FE Label.	ntifier	0	1 per FE Label	A(2)	Enumeration						_
		The number of air aspiration devices for	AirAspirationDeviceCou										
GL-36	Number of Air Aspiration Devices	this FE Label.	nt	0	1 per FE Label	N(2)	Integer				0	99	
	Air Aspiration Device	The air aspiration device configuration for	AirAspirationConfigurati										
GL-37	Configuration	this FE Label.	onIdentifier	0	1 per FE Label	A(2)	Enumeration						
		The description of the air aspiration method	AirAspirationMethodOt										
GL-38	Air Aspiration Method, if Other	for this FE Label if "other" is selected.	herText	0	1 per FE Label	A(30)	String	1	30				
		The applicable charge air cooler type for	ChargeAirCoolerIdentifi										
GL-39	Charge Air Cooler Type	this FE Label.	er	0	1 per FE Label	A(1)	Enumeration						
			ManufacturerComment										
GL-40	Engine Configuration Comments	Additional comments about this FE Label.	Text	0	1 per FE Label	A(1000)	String	1	1000				
	Hybrid, Electric Vehicle and Fuel C	Cell Information				/							1
													1
	Rechargeable Energy Storage	Enter the applicable type of energy storage	EnergyStorageDeviceId										
GL-41	System	device for this test group.	entifier	0	1 per FE Label	A(2)	Enumeration						
													1
	Rechargeable Energy Storage	Enter a description of the energy storage	Energy Storage Device										
GL-42	Device if Other	device for this test group if "other" selected	therText	0	1 per FE Label	A(30)	String	1	30				
		set and the group in outor colocidu	1	-			9			 		1	

			Verify Light-	Duty Data Ree	quirements								Office of Tra	sportation and Air Quality
														July 2014
GL-43	Battery Type	The applicable type of battery for this FE	BatteryTypeIdentifier	0	1 per EE Label	A(4)	Enumeration							
GL-43			BalleryTyperdentiller	0		A(4)	Enumeration							-
GL-44	Battery Type if Other	The description of the battery type for this FE Label if "other" selected.	BatteryTypeOtherText	0	1 per FE Label	A(30)	String	1	30					
			Ballory Type Caller Toke		1 poi i 2 2000	, (00)	oting							-
GL-45	Number of Batteries	Label. Does not include starter batteries.	BatteryCount	0	1 per FE Label	N(3)	Integer					0	999	
					·									
		The total voltage of all battery pack(s) for	Detter (Tatel) (eltere) Me											
GL-46	Total Voltage of Battery Pack(s)	batteries. (in Volts)	asure	0	1 per FE Label	N(3)	Integer					1	999	
		The battery energy capacity for this FE	Botton (Enorm (Conceit)											
GL-47	Battery Energy Capacity	(in Ah)	Measure	0	1 per FE Label	N(4,2)	Decimal			4	2	0.01	99.99	
		The battery specific energy for this FE	Patton/SpacificEporgy											
GL-48	Battery Specific Energy	(in Whr/kg)	Measure	0	1 per FE Label	N(5,1)	Decimal			5	1	0.1	9999.9	
		The applicable type of bettery oberger type	Pattory ChargerTypelde											
GL-49	Battery Charger Type	for this FE Label.	ntifier	0	1 per FE Label	A(3)	Enumeration							
GL-50	Number of Capacitors	The number of capacitors for this FE Label.	CapacitorCount	0	1 per FE Label	N(2)	Integer					0	99	
		The rating of each capacitor number (in												
GL-51	Capacitor Rating In Farads	farads).	CapacitorRatingValue	0	1n per FE Label	N(4,2)	Decimal			4	2	0.01	99.99	
		Any additional comments about the												
GL-52	Capacitor Comments	capacitor(s) for this FE Label.	CapacitorCommentText	0	1 per FE Label	A(100)	String	1	100					
		The description of the hydraulic system for	HvdraulicSvstemDescri											
GL-53	Hydraulic System Description	this FE Label.	ptionText	0	1 per FE Label	A(1000)	String	1	1000					_
		The applicable type of regenerative braking												
GL-54	Regenerative Braking Type	technology utilized on this FE Label.	BrakingTypeIdentifier	1	1 per FE Label	A(3)	Enumeration							_
	Regenerative Braking Type if	braking technology utilized on this FE Label												
GL-55	"Other"	if "other" is selected.	BrakingTypeOtherText	0	1 per FE Label	A(1000)	String							_
		The applicable source of regenerative												
GL-56	Regenerative Braking Source	braking for this FE Label.	BrakingSourceIdentifier	0	1 per FE Label	A(1)	Enumeration							-
	Driver Controlled Regenerative	Does this FE Label have driver-controlled	DriverControlledBrakin											
GL-57	Braking	regenerative braking?	gIndicator	0	1 per FE Label	A(1)	Enumeration		+					-
01.50	Number of Drive	The number of drive motor/generator(s) for											-	
GL-58	Motor/Generator(s)	tnis ⊢E Label.	MotorGeneratorCount	U	1 per FE Label	N(1)	Integer					U	9	

				Verify Light-	Duty Data Rec	quirements								Office of Tra	sportation and Air Quality
															July 2014
GL-59	Motor/Generator Type	The applicable type of motor/generator for this FE Label.		GeneratorTypeIdentifier	0	1 n per FE Label	A(4)	Enumeration							
	inoton contract Type				Ŭ			Endinordalori							-
		The description of the type of													
		motor/generator for this FE Label if other is		GeneratorTypeOtherTe											
GL-60	Motor/Generator Type if Other	selected.		xt	0	1n per FE Label	A(30)	String	1	30					-
		The rated power of the motor/generator for		GeneratorRatedPower											
GL-61	Rated Motor/Generator Power	this FE Label. (in kWatt)		Value	0	1n per FE Label	N(3)	Integer					1	999	
CI 62	Fuel Cell Description	The description of the fuel cell for this FE		FuelCellDescriptionTex	0	1 por EE Lobol	A(1000)	String	1	1000					
GL-02	Fuel Cell Description				0		A(1000)	Sung	1	1000					-
	Fuel Cell On-Board H2 Storage	The on-board hydrogen storage capacity		FuelCellOnboardHydro											
GL-63	Capacity	for this FE Label. (in kg)		genStorageMeasure	0	1 per FE Label	N(5,2)	Decimal			5	2	0.01	999.99	_
		The second state of the se													
GI -64	Usable H2 Fill Capacity	FE Label (in kg)		UsableHydrogenFillCap acityMeasure	0	1 per FE Label	N(5.2)	Decimal			5	2	0.01	999 99	
				aditymoadard				Booma			-	-	0.01	000100	-
		Any additional comments for this electric		ManufacturerComment											
GL-65	HEV EV Comments	vehicle or hybrid-electric vehicle.		Text	0	1 per FE Label	A(1000)	String	1	1000					
	Transmission Class Information														
			Submission/												
			FuelEconomyLabel												
		Enter the applicable transmission type for	Details/	TransmissionTypeldent											
GL-67	Transmission Type	this FE Label.	Details	ifier	1	1 per FE Label	A(3)	Enumeration							
			FuelEconomyLabel												
			FuelEconomyLabel												
			Details/												
GI -68	Transmission Type If Other	Enter a description of the transmission type if "other" is selected	Details	Transmission TypeOtne	0	1 ner EE Lahel	A(30)	Normalized	1	30					
			Dotano		Ū	2 por 1 2 20001	1,(00)		-						-
			FuelEconomyLabel												
			FuelEconomyLabel												
			Details/												
	Transmission Lookun	Does this FE Label have a transmission	TransmissionClass	TransmissionLockupInd	1	1 por EE Lobol	A(1)	Enumoration							
GL-09			Details		T			Linumeration							-
			FuelEconomyLabel												
			Submission/												
		Does this FE Label have any transmission	Details/												
CI 70	Turun insister Orange Oran	creeper gear(s)? Creeper gear is defined	TransmissionClass	TransmissionCreeperG	1	1 and 55 Label	A (1)	F auna di an							
GL-70	I ransmission Creeper Gear	as naving a gear ratio greater than 5.000.	Details	earingicator	1	1 per FE Label	A(1)	Enumeration							4
			FuelEconomyLabel												
			Submission/												
		Enter the total number of forward	Details/												
	Total Number of Transmission	transmission gears for this FE Label. Enter	TransmissionClass	TransmissionGearCoun											
GL-71	Gears	"1" for CVT or direct drive.	Details	t	1	1 per FE Label	N(2)	Integer					1	99	

				Verify Lig	ht-Duty Data Re	quirements						Office of Tra	nsportation and Air Quality
		Enter the applicable drive system for this	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ TransmissionClass		_								July 2014
GL-72	Drive system	FE Label.	Details	TestDriveCode	1	1 per FE Label	A(1)	Enumeration		 	 		-
			FuelEconomyLabel Submission/ FuelEconomyLabel Details/										
CL 72	Transmission Quardaine	Enter the applicable transmission overdrive	TransmissionClass	TransmissionOverdrivel	1	1 mar CC Label	A (1)						
GL-73	Transmission Overdrive	system for this FE Label.	Details	dentifier	1	1 per FE Label	A(1)	Enumeration		 	 		-
GL-74	Shift Indicator Light	Is a shift indicator light utilized for this FE Label? 'Yes' can only be selected for manual or automated manual transmissions.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ TransmissionClass Details	ShiftIndicatorLightUsag eIndicator	1	1 per FE Label	A(1)	Enumeration					
CL 75	Stan/Chart Indicator	Is an engine management system (i.e. Stop/Start engine device) utilized for this	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ TransmissionClass	EngineManagementSy	1	1 per 55 l obel	A(1)	Fourporation					
GL-75	Stop/Start Indicator	FE Laber? (See A/C 83A, page 4.)	Details	stemidentifier	1	1 per FE Label	A(1)	Enumeration		 	 		-
GL-76	Number of Transmission Modes	Enter the number of transmission modes for this FE Label. (See A/C 83A, page 4.)	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ TransmissionClass Details	TransmissionModeNum berldentifier	1	1 per FE Label	A(1)	Enumeration					_
GL-77	Variable lockup point	Enter the applicable variable lockup point for this FE Label. (See A/C 83A, page 4.)	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ TransmissionClass Details	VariableLockupPointIde ntifier	1	1 per FE Label	A(1)	Enumeration					
			FuelEconomyLabel Submission/ FuelEconomyLabel Details/										
GI -78	Declutching/Free Wheeling	Is declutching or freewheeling utilized for	TransmissionClass	DeclutchingFreeWheeli	1	1 per EE Label	Δ(1)	Enumeration					
02.0	Decidening/1100 Wheeling	1000 AVC 00A, page 4.)	Details	rigiacitatici	1	I POI FE LADEI	(<u>+</u>)		1			1	

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GL-78.1	Transmission as listed in the FE Guide	Verify will determine the value for Transmission as listed in the Fuel Econom Guide from the values entered for Transmission Type (GL-67) and Number of Transmission Gears (GL-71).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ EPAGeneratedFuel f EconomyLabelDeta Is	TransmissionAsListedI nFEGuide	1	1 per FE Label	A(12)	Enumeration					
GL-78.2	Model Type Descriptor	Enter a description of this Model Type to distinguish between otherwise identical model types that have different fuel economy label values. Use of the Model Type Descriptor is subject to EPA approval This was formerly referred to as Engine Block Descriptor.	FuelEconomyLabel Submission/ I.FuelEconomyLabel Details/ TransmissionClass Details	ModelTypeDescription1 ext	го	1 per FE Label	A(30)	String	1	30			
	FE Label Information												
<u>GL-79</u>	Fuel Economy Label Calculation Approach	Enter the fuel economy label calculation approach for this FE Label as follows: When Drive Source (GL-14) is a combustion engine ('C') or hybrid ('H') select: SC-DRV = Derived 5-cycle Calculation Approach for both city and highway labels SC-VEHSPEC = Vehicle Specific 5-cycle Calculation Approach for both city and highway labels SC-MOD = Derived 5-cycle Calculation Approach for city label but Modified 5-cycle Calculation Approach for Highway label When the Drive Source (GL-14) is an electric motor ('E') select: EV = Electric Vehicle 2-cycle label EV-5C = Electric Vehicle 5-cycle label PHEV = Plug-in Hybrid Label	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	LabelCalculationAppro achIdentifier	1	1 per FE Label	A(10)	Enumeration					
			FuelEconomyLabel										
GL-79.1	5 Cycle Hybrid Fuel Economy Label Calculation Approach	Select the applicable 5-cycle hybrid fuel economy label calculation approach.	Submission/ FuelEconomyLabel Details/LabelDetails	Hybrid5CycleCalculatio nApproachIdentifier	0	1 per FE Label	A(6)						
GL-79.2	Charge Depleting Fuel Economy Label Calculation Approach	Select the applicable value for the charge depleting fuel economy label calculation approach.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	ChargeDepletingLabel CalculationApproachId entifier	0	1 per FE Label	A(5)						
GL-79.3	Charge Sustaining Fuel Economy Label Calculation Approach	Select the applicable value for the charge sustaining fuel economy label calculation approach.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	ChargeSustainingLabe CalculationApproachId entifier	0	1 per FE Label	A(5)						

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GL-200	Litmus Bypass Indicator MDPV-	Enter "Y" (Yes) if all models for the Carline name (CL-6) are MDPVs [as determined by the Model Year (GL-3), Carline Manufacturer Code (GL-10), Division Code (GL-11), and Carline Code (GL-12)] or if this carline is being submitted by an Independent Commercial Importer (ICI), or if EPA has approved the bypass of Verify Litmus Test calculations (e.g. temporary Tier 3/LEV-III E10 workaround) for this FE Label. Otherwise enter "N" (No).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails/	MediumDutyPassenger VehicleOnlyIndepende ntCommercialImporterI adicator		1 1 ner FE I abel	A(1)	Enumeration			July 201
61-200	only of lef indicator		Details/LaberDetails				A(1)	Linumeration			
GL-82	Model Type Suppression Indicator	EPA Only: Enter whether this Model Type should be suppressed from the Fuel Economy Guide.			0	1 per FE Label	A(1)	Enumeration			
GL-83	FE Label Self-Approval Date	Enter the self-approval date determined by a manufacturer for this FE Label.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	LabelSelfApprovalDate	1	1 per FE Label	D(8)	Date	$ \begin{array}{c} [1-2]\{1\} \\ [0-9]\{3\} \\ [0-1]\{1\} \\ [0-9]\{1\} \\ [0-3]\{1\} \\ [0-9]\{1\} \end{array} $		
GL-84	Unique Label	Is this a unique label?	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	UniqueLabelIndicator	0	1 per FE Label	A(1)	Enumeration			
GL-106.1	Certification Region Code	Enter all applicable certification region codes for this FE Label. This was previously referred to as 'sales area' in CFEIS.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails	CertificationRegionCod	1	12 per FE Label (1 for each certification region code)	A(2)	Enumeration			
GL-106.2	Actual Model Sales Area	Select all applicable US states and territories where this vehicle model is offered for sale.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails	ActualModelSalesAreal dentifier	0	1n per FE Label	A(2)	Enumeration			
GL-107	Commerce Introduction Date	Enter the date on which this Model Type will be entered into commerce.			1	1 per FE Label	D(8)	Date			

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	Mfr Volunton / Lower FF or Higher	Are you voluntarily using a lower mpg value FuelEconomyLabel						
	Energy Consumption Label	or highway than was calculated for this FE FuelEconomyLabel VoluntaryLowerFuelEc						
GL-85	Indicator	Label? Details/LabelDetails onomyLabelIndicator	1 1 per FE l	abel A(1)	Enumeration			
		Enter the manufacturer-determined fuel						
		600.311-12(d) and 600.302(e), ref CISD-						
		11-11, Aug 8, 2011. Where 1 is worst and						
		10 is best. For FFVs provide the Fuel						
		(i.e., Gasoline or Diesel).						
		Refer to CISD-11-11 guidance letter for						
		use Gasoline or Diesel for the FE Rating. If						
		more than 1 Fuel Usage Value is present,						
		then only Gasoline or Diesel FE Ratings						
		new model year FE Rating look-up table						
		will be issued early each calendar year. If a FuelEconomyLabel						
	Manufacturer-Calculated	The Label is submitted prior to the new Submission/ model year quidance letter use the EuelEconomyLabel EuelEconomyRatingNu						
GL-203	Fuel Economy Rating	previous model year's look-up table. Details/LabelDetails mber	0 1 per FE l	abel N(2)	Enumeration		1 10)
		FuelEconomvLabel						
		Verify calculated Fuel Economy (1-10) Submission/						
		Rating. FuelEconomyLabel						
		Do not perform calculations for EV and EPAGeneratedFuel						
	EPA-Calculated	PHEV model types (where one of the fuel EconomyLabelDetai EPAFuelEconomyRatin	n l					
GL-204	Fuel Economy Rating	usage values (GL-89) = EL (electricity). Is gNumber	0 1 per FE l	abel N(2)	Enumeration		1 10	
		Enter the manufacturer_determined						
		greenhouse gas (1-10) rating required by FuelEconomvLabel						
		40 CFR 600.311-12(d) and 600.302(e), ref Submission/						
01 205	Manufacturer-Calculated GHG	CISD-11-11, Aug 8, 2011. FFVs will only FuelEconomyLabel GreenhouseGasRating			En la contra con			
GL-205	Rating	use Gasoline for the GHG Rating. Details/LabelDetails Number	U 1 per FE l	abel N(2)	Enumeration		1 10	2

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GL-206	EPA-Calculated GHG Rating	Verify Calculated GHG (1-10) rating Do not perform calculations for PHEV model types (ie, where there are more than one fuel usage value (GL-89) and one of those values = "EL"). This calculation should be done for EVs.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ e EPAGeneratedFuel EconomyLabelDeta Is	i EPAGreenhouseGasR atingNumber		0 1 per FE Label	N(2)	Enumeration					1		10	July 2014
		Enter all unique subconfiguration test groups that will be used to determine Smo Ratings for this FE Label. All of the	FuelEconomyLabel Submission/ g FuelEconomyLabel Details/								[A-HJ- NPR- TV-Y1-9] {1][A- Z0-9] {4.11}					
	Unique Carline/Subconfiguration	subconfiguration test groups that have the same Carline as the Model Type for this F	LabelDetails/ E SubConfigurationS								([\\.][A- Z0-9]					
GL-207	Test Group(s)	Label must be provided.	mogRatingDetails	TestGroupName	0	1n per FE Label	A(12)	String	12	12	{1,6})?					
C1 208	Manufacturer-Calculated Smog	Enter the manufacturer-determined smog (1-10) rating required by 40 CFR 600.311- 12(g) and 600.302(e), ref CISD-11-11, Aug	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ LabelDetails/ J SubConfigurationS	ManufacturerCalculate		1n per FE Label (1 per unique Carline/Subconfiguration Test Group (GL-207) for the same Model Type Cardina)	N/2)	Enumeration					1		10	
GL-208	Rating	8, 2011.	mogratingDetails	asmogRatingNumber		Canine)	N(2)	Enumeration					1		10	
GL-209	EPA-Calculated Smog Rating	Verify-calculated smog rating (1-10)	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ LabelDetails/ SubConfigurationS mogRatingDetails	EPACalculatedSmogR atingNumber		1n per FE Label (1 per unique Carline/Subconfiguration Test Group (GL-207) for the same Model Type Carline)	N(2)	Enumeration					1		10	
GL-210	Manufacturer-Calculated Amount Saved Over 5 Years	Enter the amount saved in fuel costs over years compared to the average new vehicle as required by 40 CFR 600.311- 12(f), ref CISD-11-11, Aug 8, 2011.	5 FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails/L	AmountSavedOverFive YearsNumber) 1 per FE Label	N(5)	Integer					0		99,999	

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GL-211	EPA-Calculated Amount Saved Over 5 Years	The Verify-calculated amount saved in fue costs over 5 years compared to the average new vehicle as required by 40 CFR 600.311-12(f), ref CISD-11-11, Aug 8 2011. Do not perform calculations for EV and PHEV model types (where one of the fuel usage values (GL-89) = EL (electricity).	FuelEconomyLabel 8, Submission/ FuelEconomyLabel Details/ EPAGeneratedFuel EconomyLabelDeta Is	EPAAmountSavedOve FiveYearsNumber	r C	0 1 per FE Label	N(5)	Integer			0	ylut 99,999
GL-212	Manufacturer-Calculated Increase Amount Spent Over 5 Years	Enter the increased amount that will be spent in fuel costs over 5 years compared to the average new vehicle as required by d 40 CFR 600.311-12(f), ref CISD-11-11, Aug 8, 2011.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	IncreasedAmountSpen OverFiveYearsNumber	t c	D 1 per FE Label	N(6)	Integer			0	999,999
GL-213	EPA-Calculated Increased Amount Spent Over 5 Years	The Verify-calculated increased amount that will be spent in fuel costs over 5 years compared to the average new vehicle as required by 40 CFR 600.311-12(f), ref CISD-11-11, Aug 8, 2011. Do not perform calculations for EV and PHEV model types (where one of the fuel usage values (GL-89) = EL (electricity).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ EPAGeneratedFuel EconomyLabelDeta Is	EPAIncreasedAmount5 ipentOverFiveYearsNu mber	5	0 1 per FE Label	N(6)	Integer			0	999,999
GL-274	Discrepancy Indicator between Manufacturer and EPA-Calculated Label Values	Verify will assign "Yes" if there are any discrepancies between the manufacturer and EPA-calculated Label values that will be printed on the Label.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ EPAGeneratedFuel EconomyLabelDeta Is	DiscrepancyBetweenM anufacturerAndEPACa iculatedLabelValuesInd cator		1 1 per FE Label	A(1)	Enumeration				
GL-86	Police or Emergency Vehicle Only	Does this FE Label only include police or remergency vehicles?	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	PoliceEmergencyVehic eOnlyIndicator	1	1 per FE Label	A(1)	Enumeration				

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			EvelEeeeeevel abol									
			FuelEconomyLabel									
		Are you submitting received TE Label	Submission/									
GL-87	Label Recalculation	values due to a Running Change?	Details/LabelDetails	ator	1 0	1 per EE Label	Δ(1)	Enumeration				
SE 07	Laber Acculculation		Details/EuseiDetails		0			Enumeration				-
		Did the label recalculation generate either										
		higher or lower mog values in comparison										
		with the original label values?										
			FuelEconomyLabel									
		(note: This is a combination of ""new Lab	el Submission/									
		indicator" and "Relabel Option" in CFEIS	FuelEconomyLabel	RelabelChangeldentifie								
GL-88	Relabel	G1)	Details/LabelDetails	r	0	1 per FE Label	A(2)	Enumeration				
	EPA FE Label Model Type	EPA FE Label Model Type Calculation										
GL-277	Calculation Complete Indicator	Complete Indicator	NA	NA	0	1 per FE Label	A(1)	Enumeration				
	EPA FE Label Model Type	EPA FE Label Model Type Calculation										1
GL-278	Calculation Failure Reason	Failure Reason	NA	NA	0	1 per FE Label	A(1000)	String 1 10	00			
	Fuel Usage and Fuel Economy Va	lues					- É					1
			FuelEconomyLabel									
			Submission/									
			FuelEconomyLabel									
			Details/									
		Enter the applicable fuel used for this FE	⊢uelUsageAndEcon									
GL-89	Fuel Usage	Label.	omyDetails	FuelUsageIdentifier	1	1n per FE Label	A(3)	Enumeration				

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			FuelEconomyLabel	verity Lig	an-Dury Data Keq	φιτετιτετις								Unice of Iran	Sportation and Air Quality July 2014
GL-90	Fuel Economy Value Unit	Enter the applicable unit of measure for fuel economy values based on this Fuel Usage value. Select "MPG" when submitting MPG-equivalent fuel economy values.	Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ FuelEconomyValue UnitDetails	FuelEconomyValueUnit	1	1 per Fuel Usage Value per FE Label except 1n per Fuel Usage Value per FE Label when Fuel Usage = "EL"	A(8)		3	8					
GL-81	Manufacturer-Calculated Annual Fuel Cost	Enter the annual fuel cost for for each fuel usage value for this FE Label (even though the alt fuel value for FFVs and dual-fuel vehicles is not required to be on the FE Label window sticker) using 15,000 miles o driving per year. This should be rounded to the nearest \$50 for model years greater than or equal to 2013.	FuelEconomyLabel fSubmission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails	AnnualFuelCostNumbe	1	1 per Fuel Usage Value per FE Label	N(5)						1	99999	-
GL-81.1	EPA-Calculated Annual Fuel Cost	The Verify calculated annual fuel cost for this FE Label using 15,000 miles of driving per year for model year 2013 and later. This will be rounded to the nearest \$50. Do not perform calculations for 2012 and earlier model years. Do not perform calculations for EV and PHEV model types (where one of the fuel usage values (GL-89) = EL (electricity).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ EPACalculatedFuel UsageAndEconomy Details	AnnualFuelCostNumbe	1	1 per Fuel Usage Value per FE Label	N(5)						1	99999	
GL-91	Manufacturer-Calculated Unrounded Unadjusted Model Type City FE Value	Provide the manufacturer calculated unrounded/unadjusted Model Type city fue economy value (not 5-cycle calculated values).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ FuelEconomyValue UnitDetails/ IManufacturerUnrou ndedUnadjustedMo delTypeDetails	CityFuelEconomy4Valu	1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal			7	4	0	999.9999	
				Verify Light-Duty Data F	equirements							Office of Tran	sportation and Air Quality		
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GL-92	Manufacturer-Calculated Unrounded Unadjusted Model Type Highway FE Value	Provide the manufacturer calculated unrounded/unadjusted Model Type highway fuel economy value (not 5-cycle calculated values).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerUnrou ndedUnadjustedMc delTypeDetails	HighwayFuelEconomy4 Value 1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999	July 2014		
GL-93	Manufacturer-Calculated Unrounded Unadjusted Model Type Combined FE Value	Provide the manufacturer calculated unrounded/unadjusted Model Type combined fuel economy value (not 5-cycle calculated values).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerUnrou ndedUnadjustedMc delTypeDetails	CombinedFuelEconom y4Value 1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999			
GL-223	EPA-Calculated Unrounded Unadjusted Model Type City FE Value- 4 Decimal	The EPA-calculated unrounded/unadjusted Model Type city fuel economy value (not 5- cycle calculated values).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomy Details/ EPACalculatedFue UsageAndEconomy Details/ EPAFuelEconomy alueUnitDetails/ EPAUnroundedUna djustedModelTypeI etails	CityFuelEconomy4Valu	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999			
GL-224	EPA-Calculated Unrounded Unadjusted Model Type Highway FE Value- 4 Decimal	The EPA-calculated unrounded/unadjusted Model Type highway fuel economy value (not 5-cycle calculated values).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomy UsageAndEconomy Details/ EPACalculatedFuel UsageAndEconomy Details/ EPAFuelEconomy alueUnitDetails/ EPAFuelEconomy alueUnitDetails/ EPAUnroundedUna djustedModelTypeI etails	HighwayFuelEconomy4	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999			
GL-225	EPA-Calculated Unrounded Unadjusted Model Type Combined FE Value- 4 Decimal	The EPA-calculated unrounded/unadjusted Model Type combined fuel economy value (not 5-cycle calculated values).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomy Details/ EPACalculatedFuel UsageAndEconomy Details/ EPAFuelEconomy alueUnitDetails/ EPAFuelEconomy alueUnitDetails/ EPAUnroundedUna djustedModelTypeI etails	CombinedFuelEconom y4Value 1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999			

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GL-268	Manufacturer-Calculated Unrounded Unadjusted Model Type City CO2 Value- 1 Decimal	Enter the manufacturer-calculated Unrounded Unadjusted Model Type City CO2 Value 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ManufacturerUnrou ndedUnadjustedMo delTypeCarbonDiox deDetails	i CityCarbonDioxide1Val ue	0	1 per Fuel Usage Value per FE Label	N(5,1)	Decimal	5	1	0	9999.9	July 2014
GL-269	Manufacturer-Calculated Unrounded Unadjusted Model Type Highway CO2 Value- 1 Decimal	Enter the manufacturer-calculated Unrounded Unadjusted Model Type Highway CO2 Value 1 decimal of precision	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ManufacturerUnrou ndedUnadjustedMo delTypeCarbonDiox n. deDetails	i HighwayCarbonDioxide 1Value	0	1 per Fuel Usage Value per FE Label	N(5,1)	Decimal	5	1	0	9999.9	
GL-270	Manufacturer-Calculated Unrounded Unadjusted Model Type Combined CO2 Value- 1 Decimal	Enter the manufacturer-calculated Unrounded Unadjusted Model Type Combined CO2 Value 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ManufacturerUnrou ndedUnadjustedMo delTypeCarbonDiox deDetails	i CombinedCarbonDioxi de1Value	0	1 per Fuel Usage Value per FE Label	N(5,1)	Decimal	5	1	0	9999.9	
GI -226	EPA-Calculated Unrounded Unadjusted Model Type City CO2 Value- 1 Decimal	The EPA-calculated Unrounded Unadjusted Model Type City CO2 Value with 1 decimal of precision	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ EPACalculatedFuel UsageAndEconomy Details/ EPAUnroundedUna djustedModelTypeC arbonDioxideDetails/	, CityCarbonDioxide1Val	0	1 per Fuel Usage Value per FF Label	N(5.1)	Decimal	5	1	0	9999 9	
GL-227	EPA-Calculated Unrounded Unadjusted Model Type Highway CO2 Value- 1 Decimal	The EPA-calculated Unrounded Unadjusted Model Type Highway CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ EPACalculatedFuel UsageAndEconomy Details/ EPACalculatedFuel UsageAndEconomy Details/ EPAUnroundedUna djustedModelTypeC arbonDioxideDetails	HighwayCarbonDioxide	0	1 per Fuel Usage Value per FE Label	N(5,1)	Decimal	5	1	0	9999.9	
GL-228	EPA-Calculated Unrounded Unadjusted Model Type Combined CO2 Value- 1 Decimal	d The EPA-calculated Unrounded Unadjusted Model Type Combined CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ EPACalculatedFuel UsageAndEconomy Details/ EPAUnroundedUna djustedModelTypeC arbonDioxideDetails	CombinedCarbonDioxi de1Value	0	1 per Fuel Usage Value per FE Label	N(5,1)	Decimal	5	1	0	9999.9	

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GL-94	Manufacturer-Calculated 5-Cycle Unrounded Adjusted Model Type City FE Value	If the vehicle-specific 5-cycle label calculation approach is used to generate the FE Label, provide the manufacturer- calculated unrounded adjusted Model Typi city fuel economy value. This value has been adjusted using the 5-cycle method fo the real-world driving shortfall, but has not been rounded to the label-specified digits.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerFiveCy r (cleUnroundedAdjus edModelTypeDetail S	t CityFuelEconomy4Valu e	1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999,9999	July 2014
GL-95	Manufacturer-Calculated 5-Cycle Unrounded Adjusted Model Type Highway FE Value	If the vehicle-specific 5-cycle label calculation approach is used to generate the FE Label, provide the manufacturer- calculated unrounded adjusted Model Type highway fuel economy value. This value has been adjusted using the 5-cycle method for the real-world driving shortfall, but has not been rounded to the label- specified digits.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ e FuelEconomyValue UnitDetails/ ManufacturerFiveCy cleUnroundedAdjus edModelTypeDetail s	r HighwayFuelEconomy4 Value	1	1 per Fuel Usage except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999	
GL-96	Manufacturer-Calculated 5-Cycle Unrounded Adjusted Model Type Combined FE Value	If the vehicle-specific 5-cycle label calculation approach is used to generate the FE Label, provide the manufacturer- calculated unrounded adjusted Model Typ combined fuel economy value. This value has been adjusted using the 5-cycle method for the real-world driving shortfall, but has not been rounded to the label- specified digits.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ e FuelEconomyValue UnitDetails/ ManufacturerFiveCy cleUnroundedAdjus edModelTypeDetail s	r CombinedFuelEconom y4Value	1	1 per Fuel Usage except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999	
GL-229	EPA-Calculated 5-Cycle Unrounded Adjusted Model Type City FE Value- 4 Decimal	If the vehicle-specific 5-cycle label calculation approach is used to generate the FE Label, this is the EPA-calculated unrounded adjusted Model Type city fuel economy value. This value has been adjusted using the 5-cycle method for the real-world driving shortfall, but has not been rounded to the label-specified digits.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomyDetails/ EPACalculatedFuel UsageAndEconomyV Details/ EPAFuelEconomyV alueUnitDetails/ EPAFiveCycleUnro undedAdjustedMod elTypeDetails	CityFuelEconomy4Valu	1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999.9999	
GL-230	EPA-Calculated 5-Cycle Unrounded Adjusted Model Type Highway FE Value- 4 Decimal	If the vehicle-specific 5-cycle label calculation approach is used to generate the FE Label, this is the EPA-calculated unrounded adjusted Model Type highway fuel economy value. This value has been adjusted using the 5-cycle method for the real-world driving shortfall, but has not been rounded to the label-specified digits.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ EPACalculatedFuel UsageAndEconomyV Details/ EPAFuelEconomyV alueUnitDetails/ EPAFiveCycleUnro undedAdjustedMod elTypeDetails	HighwayFuelEconomy4 Value	1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(7,4)	Decimal		7	4	0	999,9999	

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GL-231	EPA-Calculated 5-Cycle Unrounded Adjusted Model Type Combined FE Value- 4 Decimal	If the vehicle-specific 5-cycle label calculation approach is used to generate the FE Label, this is the EPA-calculated unrounded adjusted Model Type combined fuel economy value. This value has been adjusted using the 5-cycle method for the real-world driving shortfall, but has not been rounded to the label-specified digits.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ EPACalculatedFuel UsageAndEconomyDetails/ EPAFuelEconomyV alueUnitDetails/ EPAFiveCycleUnro undedAdjustedMod elTypeDetails	CombinedFuelEconom y4Value	1 per Fuel Usage FE Label ex 1 per Fuel Usage Value Units com per FE Label wh 1 Usage = "E	Yalue per ppt and FE jination n Fuel -" N(7,4)) Decimal	7	4	0	999.9999	July 2014
GL-271	Manufacturer-Calculated 5-Cycle Unrounded Adjusted Model Type City CO2 Value- 1 Decimal	Enter the Manufacturer-calculated 5-Cycle Unrounded Adjusted Model Type City CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ ManufacturerFiveC cleUnroundeAdjus edModelTypeCarbo nDioxideDetails	y st CityCarbonDioxide1Val ue (1 per Fuel Usage D FE Labe	/alue per N(5,1)) Decimal	5	1	0	9999.9	
GL-272	Manufacturer-Calculated 5-Cycle Unrounded Adjusted Model Type Highway CO2 Value- 1 Decimal	Enter the Manufacturer-calculated 5-Cycle Unrounded Adjusted Model Type Highway CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ ManufacturerFiveC cleUnroundedAdjus edModelTypeCarbo nDioxideDetails	1 y HighwayCarbonDioxide 1Value (1 per Fuel Usage D FE Labe	/alue per N(5,1)) Decimal	5	1	0	9999.9	
GL-273	Manufacturer-Calculated 5-Cycle Unrounded Adjusted Model Type Combined CO2 Value- 1 Decimal	Enter the Manufacturer-calculated 5-Cycle Unrounded Adjusted Model Type Combined CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ ManufacturerFiveC cleUnroundedAdjus edModelTypeCarbo nDioxideDetails	y st CombinedCarbonDioxi de1Value ()	1 per Fuel Usage D FE Labe	/alue per N(5,1)) Decimal	5	1	0	9999.9	
GL-232	EPA-Calculated 5-Cycle Unrounded Adjusted Model Type City CO2 Value- 1 Decimal	The EPA-calculated 5-Cycle Unrounded Adjusted Model Type City CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ EPACalculatedFuel UsageAndEconomy Details/ EPAFiveCycleUnro undedAdjustedMod elTypeCarbonDioxi eDetails	n d CityCarbonDioxide1Val ue C	1 per Fuel Usage D FE Labe	/alue per N(5,1)) Decimal	5	1	0	9999.9	
GI -233	EPA-Calculated 5-Cycle Unrounded Adjusted Model Type Highway CO2 Yalue- 1 Decimal	The EPA-calculated 5-Cycle Unrounded Adjusted Model Type Highway CO2 Value with 1 decimal of precision.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ EPACalculatedFuel UsageAndEconomy Details/ EPAFiveCycleUnro undedAdjustedMod eITypeCarbonDioxi eDetails	d HighwayCarbonDioxide	1 per Fuel Usage FE Labe	/alue per N(5.1)) Decimal	5	1	0	9999.9	

72351601 FE Label+

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			FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomyDetails/	n									July 2014
	EPA-Calculated 5-Cycle Unrounded Adjusted Model Type	The EPA-calculated 5-Cycle Unrounded Adjusted Model Type Combined CO2	EPACalculatedFue UsageAndEconom Details/ EPAFiveCycleUnro undedAdjustedMoc elTypeCarbonDioxi	I J d CombinedCarbonDioxi	0	1 per Fuel Usage Value per			_			0000.0	
GL-234	Combined CO2 Value- 1 Decimal	Value with 1 decimal of precision.	eDetails	delValue	0	FE Label	N(5,1)	Decimal	5	1	0	9999.9	_
GL-97	Manufacturer-Calculated 5-Cycle Rounded Adjusted Model Type City FE Value	Provide the manufacturer-calculated, rounded and adjusted Model Type city fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole number for label purposes. This value is the Fuel Economy Guide value, unless using a Voluntary Lower Value, and is required for all Fuel Economy Label calculation approaches.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerFiveC (cleRoundedAdjuste dModelTypeDetails	y 2 CityFuelEconomyNumb er	1	1 per Fuel Usage per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(3)	Integer			0	999	
GL-98	Manufacturer-Calculated 5-Cycle Rounded Adjusted Model Type Highway FE Value	Provide the manufacturer-calculated, rounded and adjusted Model Type highway fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole number for label purposes. This value is the Fuel Economy Guide value, unless using a Voluntary Lower Value, and is required for all Fuel Economy Label calculation approaches.	/ FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ FuelEconomyValue UnitDetails/ (ManufacturerFiveC cleRoundedAdjuste dModelTypeDetails	n 9 9 9 HighwayFuelEconomy 1 Number	1	1 per Fuel Usage per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(3)	Integer			0	999	
GL-99	Manufacturer-Calculated 5-Cycle Rounded Adjusted Model Type Combined FE Value	Provide the manufacturer-calculated, rounded and adjusted Model Type combined fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole number for label purposes. This value is the Fuel Economy Guide value, unless using a Voluntary Lower Value, and is required for all Fuel Economy Label calculation approaches.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEco omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerFiveC / cleRoundedAdjuste dModelTypeDetails	y 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1	1 per Fuel Usage per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(3)	Integer			0	999	
GL-237	EPA-Calculated 5-Cycle Rounded Adjusted Model Type City FE Value	The EPA-calculated, rounded and adjusted Model Type city fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole number for label purposes. This value is the Fuel Economy Guide value, unless using a Voluntary Lower Value, and is required for all Fuel Economy Label calculation approaches.	/ /	NA	1	1 per Fuel Usage per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(3)	Integer			0	999	

				Verify Li	ght-Duty Data Requirements				Office	of Transportation and Air Quality
GL-238	EPA-Calculated 5-Cycle Rounded Adjusted Model Type Highway FE Value	The EPA-calculated, rounded and adjuster Model Type highway fuel economy value. This adjusted value reflects real world driving and has been rounded to a whole number for label purposes. This value is the Fuel Economy Guide value, unless using a Voluntary Lower Value, and is required for all Fuel Econom Label calculation approaches.	d y NA	NA	1 per Fuel Usage per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel 1 Usage = "EL"	N(3) Intege	r		0 999	July 2014
GL-239	EPA-Calculated 5-Cycle Rounded Adjusted Model Type Combined FE Value	The EPA-calculated, rounded and adjuster Model Type combined fuel economy value This adjusted value reflects real world driving and has been rounded to a whole number for label purposes. This value is the Fuel Economy Guide value, unless using a Voluntary Lower Value, and is required for all Fuel Econom Label calculation approaches.	d y	NA	1 per Fuel Usage per FE Label 2 yer Fuel Usage and FE Value Units combination per FE Label when Fuel 1 Usage = "EL"	N(3) Integr	r		0 999	
GL-235	Manufacturer-Calculated 5-Cycle Rounded Adjusted Model Type City CO2 Value	Enter the adjusted combined model type CO2 value required by 40 CFR 600.311- 12(b) and 600.302(e)(5) in units of grams per mile, rounded to the nearest whole value, ref CISD-11-11, Aug 8, 2011. If multiple fuels then only submit for gasoline or diesel. For PHEVs submit the Adjusted Combined Composite (Utilitized) CO2 value under a fuel usage type of gasoline.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ManufacturerFiveCy cleRoundedAdjuste dModelTypeCarbon DioxideDetails	CityCarbonDioxideNum ber	1 per Fuel Usage value pe FE Label 0	r N(4) Integer		4 0	0	9999
GL-236	Manufacturer-Calculated 5-Cycle Rounded Adjusted Model Type Highway CO2 Value	Enter the adjusted combined model type CO2 value required by 40 CFR 600.311- 12(b) and 600.302(e)(5) in units of grams per mile, rounded to the nearest whole value, ref CISD-11-11, Aug 8, 2011. If multiple fuels then only submit for gasoline or diesel. For PHEVs submit the Adjusted Combined Composite (Utilitized) CO2 value under a fuel usage type of gasoline.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ManufacturerFiveCy d cleRoundedAdjuste dModelTypeCarbon DioxideDetails	HighwayCarbonDioxide Number	1 per Fuel Usage value pe FE Label 0	r N(4) Integer		4 0	0	9999

				Verify Li	ght-Duty Data Rec	uirements .					1	Office of Tr	insportation and Air Quality
											1 '		July 2014
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											1 '		
		Enter the adjusted combined model type									1 '		
		CO2 value required by 40 CFR 600.311-	EvelEeeeeevel abol								1 '		
		12(0) and 600.302(e)(5) in units of grams	FuelEconomyLabel								1 '		
		value ref CISD-11-11 Aug 8 2011	FuelEconomyl abel								1 '		
			Details/								1 '		
		If multiple fuels then only submit for	FuelUsageAndEcon								1 '		
		gasoline or diesel.	omyDetails/								1 '		
			ManufacturerFiveCy			1 per Fuel Usage value per					1 '		
	Manufacturer-Calculated 5-Cycle	For PHEVS submit the Adjusted Combined	dModelTypeCarbon	CombinedCarbonDiovi		FE Label					1 '		
GL-201	Combined CO2 Value	fuel usage type of gasoline	DioxideDetails	deNumber			N(4)	Integer	4	0		99	99
			BioxidoBotano					lincogol					
						1 per Fuel Usage value per					1 '		
	EPA-Calculated 5-Cycle Rounded					FE Label					1 '		
CI 240	Adjusted Model Type City CO2	The EPA-Calculated 5-Cycle Rounded	NIA	NIA			NICA	Integer					20
GL-240	value	Aujusted Model Type City CO2 Value	NA	INA) 	IN(4)	integer	4	0		995	19
						1 per Fuel Usage value per					1 '		
	EPA-Calculated 5-Cycle Rounded					FÉ Label					1 '		
	Adjusted Model Type Highway	The EPA-Calculated 5-Cycle Rounded											
GL-241	CO2 Value	Adjusted Model Type Highway CO2 Value	NA	NA)	N(4)	Integer	4	0	0	999	99
											1 '		
	EPA-Calculated 5-Cycle Rounded	The EPA-Calculated 5-Cycle Rounded									1 '		
	Adjusted Model Type Combined	Adjusted Model Type Combined CO2				1 per Fuel Usage value per					1 '		
GL-242	CO2 Value	Value	NA	NA	(FE Label	N(4)	Integer	4	0	0	999	99
											1 '		
											1 '		
											1 '		
											1 '		
											1 '		
											1 '		
											1 '		
											1 '		
											1 '		
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											1 '		
											1 '		
											1 '		
			FuelEconomyLabel								1 '	1	
			Submission/								1 '	1	
			FuelEconomyLabel			1 ner Euel I Isage Value por	-				1 '	1	
		Enter the lower city EE Label value if	Fuell IsageAndFcon			FF Label	1				1 '	1	
		voluntarily using a lower MPG value or	omyDetails/			except					1 '	1	
		higher energy consumption value than was	FuelEconomyValue			1 per Fuel Usage and FE					1 '	1	
	Manufacturer Voluntary Lower	calculated and submitted for 'Mfr Rounded	UnitDetails/			Value Units combination					1 '	1	
	MPG or Higher Energy	Adjusted Model Type City FE Value' (GL-	ManufacturerVolunt	CityFuelEconomyNumb	2	per FE Label when Fuel							
GL-100	Consumption City Label Value	97).	aryLowerDetails	er	U	Usage = "EL"	N(3)	Integer				999	

				Verify Lig	ght-Duty Data Rec	quirements							Office of Tra	sportation and Air Quality
	Manufacturer Voluntary Lower MPG or Higher Energy	Enter the lower highway FE Label value if voluntarily using a lower MPG value or higher energy consumption value than was calculated and submitted for 'Mfr Rounded Adjusted Model Type Highway FE Value'	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerVolunt	HighwayFuelEconomy		1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel								July 2014
GL-101 GL-102	Manufacturer Voluntary Lower MPG or Higher Energy Consumption Combined Label Value	Enter the lower combined FE Label value if voluntarily using a lower MPG value or higher energy consumption value than was calculated and submitted for 'Mfr Rounded Adjusted Model Type Combined FE Value' (GL-99).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ FuelEconomyValue UnitDetails/ ManufacturerVolunt aryLowerDetails	CombinedFuelEconom	0	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(3)	Integer				0	999	
GL-276	Manufacturer Voluntary Higher CO2 Combined Label Value	Enter the Manufacturer Voluntary Higher CO2 Combined Label Value if applicable.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/LabelDetails	ManufacturerVoluntary HigherCarbonDioxideC ombinedNumber	0	1 per FE Label	N(4)	Integer		4	0	0	9999	
GL-243	EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label City FE Value	The EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label City FE Value.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ EPACalculatedFuel UsageAndEconomyV Details/ EPAFuelEconomyV alueUnitDetails/ EPAFiveCycleRoun dedAdjustedFinalLa belDetails	CityFuelEconomyNumb	1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usage = "EL"	N(3)	Integer				0	999	

				Verify Li	ight-Duty Data Red	quirements						Office of Tra	nsportation and Air Qualit
GL-244	EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label Hidhway FE Value	The EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label Highway FE Value.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomyDetails/ EPACalculatedFue UsageAndEconomyDetails/ EPAFuelEconomyDatails/ EPAFuelEconomyDatails/ EPAFiveCycleRour dedAdjustedFinalLa belDetails	I I Y A HighwayFuelEconomy Number	1	1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FE Label when Fuel Usane = "EL"	N(3)	Integer			0	999	July 201
<u>GL-244</u>	EPA-Calculated 5-Cycle Rounded	The EPA-Calculated 5-Cycle Rounded	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ EPACalculatedFue UsageAndEconomy Details/ EPAFuelEconomyV alueUnitDetails/ EPAFiveCyCleRour dedAdiustedFinali	CombinedEuelEconom		1 per Fuel Usage Value per FE Label except 1 per Fuel Usage and FE Value Units combination per FF Label when Fuel	N(3)	integer			0	999	
GL-245	Combined FE Value EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label	Combined FE Value. The EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label	belDetails FuelEconomyLabel Submission/ FuelEconomyLabel Details/ EPAGeneratedFue EconomyLabelDeta	yNumber yNumber EPAFiveCycleRounded I AdjustedFinalLabelCo ai mbinedCarbonDioxide	1	Usage = "EL"	N(3)	Integer			0	999	_
GL-248 GL-214	Combined CO2 Value Manufacturer-Calculated Adjusted Combined Model Type Fuel Consumption	Combined CO2 Value Enter the adjusted combined model type fuel consumption required by 40 CFR 600.311-12(c) in units of gallon or gallon- equivalent per 100 miles for one fuel usag (GL-89) value as appropriate. For fuel usage = electricity, enter the charge depleting fuel consumption (which is normally zero for electric vehicles and non blended PHEVs). For PHEVs enter the fuel consumption for gasoline or diesel fuel usage as appropriate. For fuel usage = hydrogen, enter fuel consumption in units of kilogram per 100 miles. Based on Adjusted Combined MPG	e FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor . omyDetails	Number	0 0	1 per FE Label	<u>N(4,1)</u>	Decimal	4		0.0	9999	9
GL-275	Manufacturer Voluntary Higher Combined Fuel Consumption	Enter the Manufacturer Voluntary Higher Combined Fuel Consumption Value if applicable.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails	I ManufacturerVoluntary n HigherCombinedFueIC onsumptionValue		1 per Fuel Usage Value per 0 FE Label	N(4,1)	Decimal		4 1	0.0	999.	9

				Verify Lig	ht-Duty Data Rec	quirements								Office of Trar	nsportation and Air Quality
		Verify-Calculated Adjusted Combined	FuelEconomyLabel	Verify Li	ght-Duty Data Rec	φirements								Office of Trar	Sportation and Air Quality July 2014
	EPA-Calculated Adjusted Combined Model Type	Model Type Fuel Consumption in units of gallon or gallon-equivalent per 100 miles for each fuel usage (GL-89) value. Do not perform calculations for PHEVs. For fuel usage = hydrogen, fuel consumption in units are kilogram per 100 miles. Based of Units and Additional Conductions (States)	FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ EPACalculatedFuel nUsageAndEconomy	EPAAdjustedCombined ModelTypeFuelConsu		1 per Fuel Usage Value pe	r	Desired							
GF-512	Fuel Consumption	Unrounded Adjusted Combined MPG.	Details FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon			u FE Label	IN(4,1)	Decimal			4	1	0.0	<u>n 999.</u> (5
	Manufacturer-calculated City Fue Economy Label MPG Lower Range	I Enter the manufacturer-calculated city lower range value using the official city fue	omyDetails/ ManufacturerCityLa	MilesPerGallonLowerR		()									
GL-169	Value Manufacturer-Calculated City Fuel Economy Label MPG Upper Range Value	Enter the manufacturer-calculated city upper range value using the official city fue economy label value.	peiDetails FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ el ManufacturerCityLa belDetails	angeNumber MilesPerGallonUpperR angeNumber	0	(1 per Fuel Usage value) (1 per Fuel Usage value)	N(3)	Integer	1	3			0	999	
GL-170	Manufacturer-Calculated Highway Fuel Economy Label MPG Lower Range Value	Enter the manufacturer-calculated highway lower range value using the official highway city fuel economy label value.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon y omyDetails/ y ManufacturerHighw ayLabelDetails	MilesPerGallonLowerR angeNumber	FALSE	(1 per Fuel Usage value)	N(3)	Integer	1	3			0	999	
GL-171	Manufacturer-Calculated Highway Fuel Economy Label MPG Upper Range Value	Enter the manufacturer-calculated highway upper range value using the official highway city fuel economy label value.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon y omyDetails/ ManufacturerHighw ayLabelDetails	MilesPerGallonUpperR angeNumber	0	(1 per Fuel Usage value)	N(3)	Integer	1	3			0	999	

				Verify Li	ht-Duty Data Rec	quirements								Office of Tra	nsportation and Air Quality
GL-103	Model Type Driving Range (EPA Method) (in miles)	Enter the driving range (minimum and maximum, if applicable) for this model type's fuel usage value following EPA guidance. This must be provided for all alternative fuels and also for models operated on gasoline or diesel if they are dual or bi-fuel. Do not use FTC's driving range calculation procedures. Format as: 'nnn' for one driving range, or, 'nnn/nnn' fo minimum and maximum driving range.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ r FuelUsageAndEcon omyDetails	ModelTypeDrivingRang eText	0	1 per Fuel Usage value pe FE Label	A(20)	String	1 2	'nnn' = Single range; 'nnn/nnr = Shortes and longest ranges for this model type tha have available multiple fuel tanl capacitic 0 s.	r't t e e k e				portation and Air Quality July 2014
		Enter the maximum ethanol percentage	FuelEconomyLabel Details/ FuelUsageAndEcon	MaximumEthanolPerce		1 per Fuel Usage value pe	r								
GL-104 GL-105	Maximum Ethanol Percentage Maximum Bio-diesel Percentage GL-216-GL-222 are required when	Enter the maximum bio-diesel percentage recommended by the manufacturer.	omyDetails FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails d	ntageValue MaximumBiodieselPerc entageNumber	0	1 per Fuel Usage value pe FE Label	N(3,1)	Integer			3	0	0	100	
GL-216	Charge Time (Hours) at 240 Volts (If Capable)	Enter the Charge Time at 240 volts (if capable) in hours.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails	ChargeTimeHoursAtTw oHundredFortyVoltsNu mber		1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise no allowed 0	t N(2)	Integer					c	9	9
GL-217	Charge Time (Hours) at 120 Volts (If Capable)	Enter the Charge Time at 120 volts (if capable) in hours.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails	ChargeTimeHoursAtOn eHundredTwentyVoltsN umber		1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise no allowed 0	t N(2)	Integer					c	9	9

			Verify Lig	nt-Duty Data Requirements					Office of Transportati	tion and Air Quality
GL-218	PHEV Total Driving Distance (miles)	Enter the PHEV Total Driving Distance in miles rounded to the nearest whole number.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails/ PlugInHybridElectric VehicleFuelEconom VehicleFuelEconom TotalDrivingDistanceIn yDetails MilesNumber	1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise n allowed 0	ot N(4)	Integer		0	9999	July 2014
GL-219	PHEV Composite (Gasoline/Electricity) City MPGe	Enter the PHEV Composite (gasoline/electricity) City MPGe	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUSageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails/ PlugInHybridElectric CompositeGasolineEle VehicleFuelEconom ctricityCityMilesPerGall yDetails onEquivalentNumber	1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise n allowed 0	ot N(4)	Integer		0	9999	
GL-220	PHEV Composite (Gasoline/Electricity) Highway MPGe	Enter the PHEV Composite (gasoline/electricity) Highway MPGe	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails/ PlugInHybridElectric VehicleFuelEconom GallonEquivalentNumb yDetails er	1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise n allowed 0	ot N(4)	Integer		0	9999	
GL-221	Manufacturer-Calculated PHEV Composite (Gasoline/Electricity) Combined MPGe	Enter the PHEV Composite (gasoline/electricity) Combined MPGe	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails/ CompositeGasolineEle PlugInHybridElectric ctricityCombinedMilesP VehicleFuelEconom erGallonEquivalentNum yDetails ber	1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise n allowed 0	ot N(4)	Integer		0	9999	
GL-222	EPA-Calculated PHEV Composite (Gasoline/Electricity) Combined MPGe	The Verify-calculated PHEV Composite (gasoline/electricity) Combined MPGe	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcon EPACPLUAtedFuel UsageAndEconomy UsageAndEconomy dMilesPerGallonEquiva Details IentNumber	1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise n allowed 0	ot N(4)	Integer		0	9999	
GL-279	Manufacturer-Calculated PHEV Composite (Gasoline/Electricity) Combined CO2	Enter the PHEV Composite (gasoline/electricity) Combined CO2	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUSageAndEcon omyDetails/ ElectricVehicleFuel EconomyDetails/ PlugInHybridElectric VehicleFuelEconom vPictails nDioxideNumber	1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise n allowed 0	ot N(4)	Integer		0	9999	

				Verify Light	-Duty Data Re	quirements								Office of Tra	nsportation and A
GL-280	EPA-Calculated PHEV Composite (Gasoline/Electricity) Combined CO2	The Verify-calculated PHEV Composite (gasoline/electricity) Combined CO2	Submission/ FuelEconomyLabel Details/ FuelUsageAndEconomyDetails/ EPACalculatedFuel UsageAndEconomy Details	EPAPlugInHybridElectri cVehicleCompositeGas olineElectricityCombine dCarbonDioxideNumbe r		1 per Fuel Usage only when Fuel Usage = "EL" per FE Label, otherwise no allowed 0	t N(4)	Integer					0	999	9
	Gas Guzzler Information														
01.400		Is this FE Label exempt from IRS Gas	FuelEconomyLabel Submission/ FuelEconomyLabel Details/	GasGuzzlerExemption											
<u>3L-106</u>	Gas Guzzier Exempt	Galculate model type mpg for acc suggler	Model 1 ypeDetails FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDatails/		1	1 per FE Label	A(1)	Enumeration							-
GL-173	EPA-Calculated Gas Guzzler Mile Per Gallon	indication as specified in 40 CFR 600.513 for each passenger automobile model type	EPACalculatedFuel e. UsageAndEconomy Details	GasGuzzlerMilesPerGa IlonValue	0	1 per FE Label	N(4,1)	Decimal			4	1	0	999.9	
GI -173 1	Manufacturer-Calculated Gas Guzzlar Mile Per Gallon	Calculate model type mpg for gas guzzler indication as specified in 40 CFR 600.513 for each passenger automobile model type	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ e. FuelUsageAndEcor	ManufacturerGasGuzzl	0	1 per EF I abel	N(4.1)	Decimal				1	0	999 9	
01 110.1		Verify-calculated field that indicates this model type is a das guzzler (see guzzler	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ FuelUsageAndEcor omyDetails/ EPACalulatedEucl				IN(4,±)						0		
GL-174	EPA-Calculated Gas Guzzler Indicator	comparison value set forth in the Gas Guzzler Table, updated each model year)	UsageAndEconomy Details	GasGuzzlerIndicator	1	1 per FE Label	A(1)	String	1	1					_
	Base Level Into (Multiple Base Le	evels may exist within a FE Label Model T	ype)						Ba	se Level is d	enned as a	unique d	combination d	T Basic Engine, Tran	15
		Assigned by Verify for each base level (i.e	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/	BaseLevelIndexNumbe		1n per FE Label (1 for each Base Level									
GL-109	Base Level Index	manufacturer.	BaseLevelDetails	r	1	within a Model Type)	N(2)	Integer					1	99	

				Verify Lig	ht-Duty Data Rec	quirements							Office of Trans	portation and Air Qualit
		Inertia Weight Class (ref: 40 CFR 600.002- 08): means the class, which is a group of test weights, into which a vehicle is grouped based on is loaded vehicle weight in accordance with the provisions of 40	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTvpeDetails/	InertiaWeightClassNum		1n per FE Label (1 for each Base Level								201 Vily 201
GL-110	Inertia Weight Class	CFR 86.	BaseLevelDetails	ber	1	within a Model Type)	N(5)	Integer				0	99999	
GL-110.5	Base Level Fuel Usage ID	Enter the applicable fuel used for this base level.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ FuelUsageDetails	FuelUsageIdentifier	1	1n per FE Label (1n for each Base Level within a Model Type)	A(3)	Enumeration						
GL-111	Manufacturer-Calculated Unrounded Unadjusted Base Leve City FE Value	Provide the manufacturer-calculated unrounded/unadjusted Base Level City FE value (using derived 5-Cycle calculation method). This value is not rounded and not adjusted for the real world fuel economy shortfall.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ FuelUsageDetails/ ManufacturerUnrou ndedUnadjustedBas eLevelDetails	CityFuelEconomy4Valu e	0	1n per FE Label (1 for each Base Level Fuel Usage per Base Level within a Model Type)	N(7,4)	Decimal		7	4	0	999.9999	
GL-112	Manufacturer-Calculated Unrounded Unadjusted Base Leve Highway FE Value	Provide the manufacturer-calculated unrounded/unadjusted Base Level Highway FE value (using derived 5-Cycle calculatior method). This value is not rounded and not adjusted for the real world fuel economy shortfall.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ FuelUsageDetails/ ManufacturerUnrou ndedUnadjustedBas eLevelDetails	HighwayyFuelEconomy 4Value	0	1n per FE Label (1 for each Base Level Fuel Usage per Base Level within a Model Type)	N(7,4)	Decimal		7	4	0	999.9999	

				Verify Li	ght-Duty Data Re	equirements							Office of Trar	nsportation and Air Quality
	Manufacturer-Calculated Unrounded Unadjusted Base Leve	Provide the manufacturer-calculated unrounded/unadjusted Base Level Combined FE value (using derived 5-Cycle calculation method). This value is not rounded and not adjusted for the real world I fuel economy shortfall.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ FuelUsageDetails/ dmanufacturerUnrou ndedUnadiustedBa	siCombinedEuelEconom		1n per FE Label (1 for each Base Level Fuel Usage per Base Level								July 2014
GL-113	Combined FE Value		eLevelDetails	y4Value	0	within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	
GL-113.5	EPA-Calculated Unrounded Unadjusted Base Level City FE Value- 4 Decimal	Verify-calculated unrounded undadjusted base level City fuel economy value.	NA	NA	0	1n per FE Label (1 for each Base Level Fuel Usage per Base Level within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	-
GL-113.6	EPA-Calculated Unrounded Unadjusted Base Level Highway FE Value- 4 Decimal	Verify-calculated unrounded undadjusted base level Highway fuel economy value.	NA	NA	0	1n per FE Label (1 for each Base Level Fuel Usage per Base Level within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	_
GL-113.7	EPA-Calculated Unrounded Unadjusted Base Level Combined FE Value- 4 Decimal	Verify-calculated unrounded undadjusted base level Combined fuel economy value.	NA	NA	0	1n per FE Label (1 for each Base Level Fuel Usage per Base Level within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	
GL-249	EPA-Calculated Unrounded Unadjusted Base Level City CO2 Value- 1 Decimal	The EPA-Calculated Unrounded Unadjusted Base Level City CO2 Value- 1 Decimal.	NA	NA	0	1 per Fuel Usage per Base Level per FE Label N	N(5,1)			5	1	0	9999.9	_
GL-250	EPA-Calculated Unrounded Unadjusted Base Level Highway CO2 Value- 1 Decimal	EPA-Calculated Unrounded Unadjusted Base Level Highway CO2 Value- 1 Decimal.	NA	NA	0	1 per Fuel Usage per Base Level per FE Label N	N(5,1)			5	1	0	9999.9	_
GL-251	EPA-Calculated Unrounded Unadjusted Base Level Combined CO2 Value- 1 Decimal	EPA-Calculated Unrounded Unadjusted Base Level Combined CO2 Value- 1 Decimal.	NA	NA	0	1 per Fuel Usage per Base Level per FE Label N	N(5,1)			5	1	0	9999.9	
GL-116.5	EPA-Calculated 5-Cycle Unrounded Adjusted Base Level City FE Value- 4 Decimal	Verify-calculated 5-cycle unrounded adjusted base level city fuel economy value	e NA	NA	0	1n per FE Label (1 for each Base Level within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	_
GL-116.6	EPA-Calculated 5-Cycle Unrounded Adjusted Base Level Highway FE Value- 4 Decimal	Verify-calculated 5-cycle unrounded adjusted base level highway fuel economy value	NA	NA	0	1n per FE Label (1 for each Base Level within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	
GL-116.7	EPA-Calculated 5-Cycle Unrounded Adjusted Base Level Combined FE Value- 4 Decimal	Verify-calculated 5-cycle unrounded adjusted base level combined fuel economy value	NA	NA	0	1n per FE Label (1 for each Base Level within a Model Type) N	N(7,4)	Decimal		7	4	0	999.9999	_
GL-252	EPA-Calculated 5-Cycle Unrounded Adjusted Base Level City CO2 Value- 1 Decimal	The EPA-Calculated 5-Cycle Unrounded Adjusted Base Level City CO2 Value- 1 Decimal	NA	NA	0	N	N(5,1)	Decimal		5	1	0	9999.9	
GL 252	EPA-Calculated 5-Cycle Unrounded Adjusted Base Level Highway CO2 Value- 1 Decimal	The EPA-Calculated 5-Cycle Unrounded Adjusted Base Level Highway CO2 Value- 1 Decimal			0		N(5 1)	Docimal		5	1	0	0000 0	
02 200			11/5		U	IN	•(J,1)	Decimai	I	5	1 1	, U	5555.5	

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GL-254	EPA-Calculated 5-Cycle Unrounded Adjusted Base Level Combined CO2 Value- 1 Decimal	The EPA-Calculated 5-Cycle Unrounded Adjusted Base Level Combined CO2 Value- 1 Decimal	NA	NA	0	N(5 1)	Decimal			5		0	9999.9	
01 204	Configuration Info (Multiple Confi	gurations may exist within a Base Level)				11(0,1)	Decima	Configuration	s defined as	a "unique	e combina	tion of Engi	ine Code, Axle Ratio a	n
		Enter the index number assigned by the manufacturer to identify each configuration within a Base Level that contains a unique combination of Engine Code, Axle Ratio and Transmission Configuration. Manufacturers should assign the code as specified below: 001-499: A portion of this configuration is represented by a test vehicle.	FuelEconomyLabel Submission/											
		represented by a test vehicle.	Details/		1n per FE La	abel								
		(Formerly "DVC" (Data vehicle code) in	BaseLevelDetails/	ConfigurationIndexNum	(1 for each Config within each Base	Level								
		Enter the Transmission Configuration Code assigned by the manufacturer for this Configuration. 1. The Transmission Configuration Code is used to distinguish a unique transmission configuration within a Transmission Class. Manufacturers may assign the code alphanumerically up to two characters (e.g '1', 'A', '02', 'A2', '3B', etc.). 2. For a definition of Transmission Configuration, see 40 CFR 600.002-08 and A/C 83A. 3. This data element replaces all of the CFEIS "GR" and "GL" data elements and i functionally equivalent to the CFEIS "Transmission Configuration Link" data element.	FuelEconomyLabel Submission/ sFuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/	TransmissionConfigurat	1n per FE Lt (1 for each Config within each Base	ubel guration : Level			[A-Z0-5	ŋ				
GL-118	Transmission Configuration Code	· · · · · · · · · · · · · · · · · · ·	ConfigurationDetails	ionCode	1 within a Model	Гуре) А(2)	String	1	2 {1,2}					_
GL-119	Engine Code	Enter the Engine Code for this Configuration which is used to distinguish a unique combination of displacement, fuel delivery system, calibration, emission control, within a Engine system combination (ref: 40 CFR 600.002-08).	FuelEconomyLabel Submission/ a FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails	EngineCodeText	1n per FE La (1 for each Confi within each Base 1 within a Model	ubel guration : Level [ype] A(14)	String	1	.4					
GL-120	Axle Ratio	Enter the axle ratio for this Configuration.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails	AxleRatioValue	1n per FE La (1 for each Config within each Base 1 within a Model	abel guration : Level Fype) N(3,2)	Decimal			3	2	0.00	9.99	
GL-120.1	EPA-Calculated Unrounded Unadjusted Configuration City FE Value- 4 Decimal	Verify-calculated unrounded unadjusted configuration city fuel economy value.	NA	NA	1n per FE La (1 for each Confi within each Base 0 within a Model	ubel guration Level Fype) N(7,4)	Decimal			7	4	0	999.9999	

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GL-120.2	EPA-Calculated Unrounded Unadjusted Configuration Highway FE Value- 4 Decimal	Verify-calculated unrounded unadjusted configuration highway fuel economy value.	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(7,4)	Decimal				7	4	0	999.9999
GL-120.3	EPA-Calculated Unrounded Unadjusted Configuration Combined FE Value- 4 Decimal	Verify-calculated unrounded unadjusted configuration combined fuel economy value.	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(7,4)	Decimal				7	4	0	999.9999
GL-254.5	EPA-Calculated Unrounded Unadjusted Configuration City CO2 Value- 1 Decimal	The EPA-Calculated Unrounded Unadjusted Configuration City CO2 Value- 1 Decimal	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(5,1)	Decimal				5	1	0	9999.9
GL-255	EPA-Calculated Unrounded Unadjusted Configuration Highway CO2 Value- 1 Decimal	The EPA-Calculated Unrounded Unadjusted Configuration Highway CO2 Value 1 Decimal	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(5.1)	Decimal				5	1	0	9999.9
SL-256	EPA-Calculated Unrounded Unadjusted Configuration Combined CO2 Value- 1 Decimal	The EPA-Calculated Unrounded Unadjusted Configuration Combined CO2 Value- 1 Decimal	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(5,1)	Decimal				5		0	9999.9
GL-120.4	EPA-Calculated 5-cycle Unrounded Adjusted Configuration City FE Value- 4 Decimal	Verify-calculated 5-cycle unrounded adjusted configuration city fuel economy value.	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(7,4)	Decimal				7	4	0	999.9999
GL-120.5	EPA-Calculated 5-cycle Unrounded Adjusted Configuration Highway FE Value- 4 Decimal	Verify-calculated 5-cycle unrounded 4 adjusted configuration highway fuel economy value.	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(7,4)	Decimal				7	4	0	999.9999
GL-120.6	EPA-Calculated 5-cycle Unrounded Adjusted Configuration Combined FE Value 4 Decimal	Verify-calculated 5-cycle unrounded - adjusted configuration combined fuel economy value.	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(7,4)	Decimal				7	4	0	999.9999
GL-257	EPA-Calculated 5-cycle Unrounded Adjusted Configuration City CO2 Value- 1 Decimal	The EPA-Calculated 5-cycle Unrounded Adjusted Configuration City CO2 Value- 1 Decimal	NA	NA	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Type)	N(5,1)	Decimal				5	1	0	9999.9
31-258	EPA-Calculated 5-cycle Unrounded Adjusted Configuration Highway CO2 Value 1 Decimal	The EPA-Calculated 5-cycle Unrounded Adjusted Configuration Highway CO2 Value-1 Decimal	ΝΔ	ΝΔ	0	1n per FE Label (1 for each Configuration within each Base Level within a Model Tyne)	N(5 1)	Decimal				5	1	0	99999 9
21.250	EPA-Calculated 5-cycle Unrounded Adjusted Configuration Combined CO2	The EPA-Calculated 5-cycle Unrounded Adjusted Configuration Combined CO2	NA			1n per FE Label (1 for each Configuration within each Base Level	N(E 1)	Desimal				5	1		0000.0
52-209			NA	INA	0	within a woder type)	IN(5,1)	Decimai				5	1	0	3333.3
	Sub-configuration Info (Multi subc	onfigurations may exist within a Configura	ation)						A sub-conf	iguratior	is defined	as a un	ique com	bination of	equivalent test weight

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		Enter the index number assigned by the manufacturer to identify this subconfiguration within a configuration. Subconfiguration Index is used to identify each subconfiguration that contains a unique combination of equivalent test weight and road load horse power. Manufacturers should assign this code as specified below: 01-49: for a subconfiguration represented by a test vehicle. 51-99: for a subconfiguration not represented by a test vehicle.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails /	5		1n per FE Label (1 for each Subconfiguration within each Configuration within							July 2014
GL-121	Subconfiguration Index	(Formerly "RLC" (Road Load Code) in CFEIS.)	SubConfigurationDe tails	SubConfigurationIndex Number	1	each Base Level within each Model Type)	N(2)	Integer	2		1	99	
GL-122	Total Road Load Horsepower	Enter the total road load horsepower at 50 mph (TRLHP50).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails / SubConfigurationDet tails	; RoadLoadHorsepower Value	1	1n per FE Label (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(3,1)	Decimal	3	1	0	99.9	
GL-123	Equivalent Test Weight (ETW)	Enter the Equivalent Test Weight (ETW) within a specified Inertia Weight Class.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails / SubConfigurationDetails	s EquivalentTestWeightV alue	, 1	1n per FE Label (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(5)	Enumeration 1 5			0	14000	
GL-125	Altitude Code	Enter the altitude for which the vehicles within this subconfiguration are offered for sale	FuelEconomyLabel Submission/ EuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails / SubConfigurationDetails	SaleAltitudeCode	1	1n per FE Label (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1)	Enumeration				14000	
GL-125.0.1	EPA-Calculated Unrounded Unadjusted Subconfiguration City FE Value- 4 Decimal	Verify-calculated unrounded unadjusted subconfiguration city fuel economy value.	NA	NA	0	1n per FE Label (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(7,4)	Decimal	7	4	0	999.9999	
GL-125.0.2	EPA-Calculated Unrounded Unadjusted Subconfiguration Highway FE Value- 4 Decimal	Verify-calculated unrounded unadjusted subconfiguration highway fuel economy value.	NA	NA	0	1n per FE Label (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(7,4)	Decimal	7	4	0	999.9999	
GL-260	EPA-Calculated Unrounded Unadjusted Subconfiguration City CO2 Value- 1 Decimal	The EPA-Calculated Unrounded Unadjusted Subconfiguration City CO2 Value- 1 Decimal	NA	NA	0	1n per FE Label (1 for each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(5,1)	Decimal	5	1	0	9999.9	

72351601 FE Label+

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	EPA-Calculated Unrounded	The EPA-Calculated Unrounded			1n per FE Label (1 for each										
	Unadjusted Subconfiguration	Unadjusted Subconfiguration Highway CO	2		each Configuration within										
0.001	Highway CO2 Value- 1 Decimal	Value- 1 Decimal			each Base Level within						_				
GL-261			NA NA	0	each Model Type)	N(5,1)	Decimai				5	1	0	9999.9	-
					1n per FE Label										
	EDA Calculated E avala				(1 for each										
	Unrounded Adjusted	Verify-calculated 5-cycle unrounded			each Configuration within										
	Subconfiguration City FE Value-	4 uadjusted subconfiguration city fuel			each Base Level within										
GL-125.0.4	Decimal	economy value.	NA NA	0	each Model Type)	N(7,4)	Decimal				7	4	0	999.9999	-
1					1n per FE Label										
1					(1 for each										
	EPA-Calculated 5-cycle	Verify-calculated 5-cycle uprounded			Subconfiguration within										
	Subconfiguration Highway FE	uadjusted subconfiguration highway fuel			each Base Level within										
GL-125.0.5	Value- 4 Decimal	economy value.	NA NA	0	each Model Type)	N(7,4)	Decimal				7	4	0	999.9999	-
					1n per FE Label										
					(1 for each										
	EPA-Calculated 5-cycle	The EDA Coloulated E gyale Liprounded			Subconfiguration within										
	Subconfiguration City CO2 Value	- Adjusted Subconfiguration City CO2 Value	_		each Base Level within										
GL-262	1 Decimal	1 Decimal	NA NA	0	each Model Type)	N(5,1)	Decimal				5	1	0	9999.9	
					1 n nor EE Label										
					(1 for each										
	EPA-Calculated 5-cycle				Subconfiguration within										
	Unrounded Adjusted	The EPA-Calculated 5-cycle Unrounded			each Configuration within										
GL-263	Value- 1 Decimal	Value- 1 Decimal	NA NA	0	each Model Type)	N(5,1)	Decimal				5	1	0	9999.9	
GL-281	N/V Ratio	Enter the applicable N/V ratio for this test	FuelEconomyLabel NVRatioValue	0	1n per FE Label	N(4,1)	Decimal				4	1	0	999.9	1
		vehicle configuration.	Submission/		(1 for each										
			PuelEconomyLaber		each Configuration within										
			ModelTypeDetails/		each Base Level within										
			BaseLevelDetails/		each Model Type)										
			ConfigurationDetails												
			, SubConfigurationDe												
	Sub-configuration Sales Info (Mu	ltiple Subconfiguration-sales may exist wi	till & Subconfiguration)					A sub-conf	iguration	n is define	ed as a ui	ique con	nbination o	f equivalent test weigh	t
			FueleconomyLabel Submission/												
			FuelEconomyLabel												
			Details/												
			Model I ypeDetails/ Basel evelDetails/		1 n nor EE Labol										
			ConfigurationDetails		(1 for each										
			1		Subconfiguration sales row	/									
			SubConfigurationDe		within each										
			talls/		Subconfiguration within each Configuration within										
		Enter the applicable manufacturer code for	lesInformationDetail		each Base Level within					[A-Z0-9]					
GL-125.5	Manufacturer Code	this subconfiguration sales information.	s EPAManufacturerCoo	de 1	each Model Type)	A(3)	String	3	3	{3}					

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			Submission/											
			FuelEconomyLabel											
			Details/ ModelTypeDetails/											
			BaseLevelDetails/			1n per FE Label								
			ConfigurationDetails			(1 for each								
			/ SubConfigurationDe			subconliguration sales row within each	'							
			tails/			Subconfiguration within								
		Enter the applicable manufacturer code fo	SubConfigurationSa	ManufacturorDivisionC		each Configuration within								
GL-125.6	Division Code	this subconfiguration sales information.	S	ode	1	each Model Type)	N(2)	Integer	1	2		1	99	
			FuelEconomyLabel					Ŭ						-
			FuelEconomyLabel											
			Details/											
			Model I ypeDetails/ Basel evelDetails/			1 n per EE Label								
			ConfigurationDetails	;		(1 for each								
			/ SubConfigurationDe			Subconfiguration sales row	'							
			tails/			Subconfiguration within								
			SubConfigurationSa			each Configuration within								
GL-125.7	Carline Code	this subconfiguration sales information.	r lesinformationDetail	CarlineCode	1	each Base Level Within each Model Type)	N(3)	Integer	1	3		1	999	
			FuelEconomyLabel			, , , , , , , , , , , , , , , , , , ,	(-)			_				-
			FuelEconomyLabel											
			Details/											
			Model I ypeDetails/ Basel evelDetails/			1 n ner FF Label								
			ConfigurationDetails			(1 for each								
			/			Subconfiguration sales row	'							
			tails/			Subconfiguration within								
			SubConfigurationSa			each Configuration within								
GL-126	Test Group	Enter the applicable test group name for this subconfiguration	lesInformationDetail	TestGrounName	1	each Base Level within	Δ(12)	String	12	12				
			FuelEconomyLabel	restoroupivanie				Stillig	12	12				-
			Submission/											
			Details/											
			ModelTypeDetails/			1 n nor FE Labol								
			ConfigurationDetails			(1 for each								
						Subconfiguration sales row	'							
			SubConfigurationDe			Within each Subconfiguration within								
			SubConfigurationSa			each Configuration within								
GL-124	Subconfiguration Projected Sales	Enter the projected sales for this	lesInformationDetail	SubConfigurationProject	1	each Base Level within	N(6)	Integer				1	000000	
GL-124	Subconnguration Projected Sales		3		1	each would rype)	14(0)	Integel				1	399999	
	Test Vehicle Info (Multiple													
	exist within a sub-configuration)													
	, and the second s													
														I

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61-127	Test Number	Enter an applicable Test Number for this FE Label that was previously assigned by Verify in Test Information. Test Number must be entered when Subconfiguration Index (GL-121) is 1 to 49 and Configuration Index (GL-117) is 1 to 499 which indicates that the subconfiguration is represented by a tested vehicle	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ ConfigurationDetails/ SubConfigurationDe tails/ SubConfigurationDetails/	TestNumberldentifier		1n per FE Label (1n for each Subconfiguration within each Configuration within each Base Level within each Model Tyrco	A(12)	String							July 2014
		A unique alphanumeric identifier assigned	TestverincieDetails	resultanibertaentiner	0	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within	A(12)	Sung							
GL-128	Vehicle ID	by the manufacturer to each test vehicle.	NA	NA	1	each Model Type)	A(20)	String	1	20					
GL-129	Vehicle Configuration Number	A number previously assigned to specify a unique test vehicle configuration.	NA	NA	1	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(2)	Integer					0	99	
GL-130	Test Category	The applicable test category for this test.	ΝΑ	NA	1	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(6)	Enumeration							

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GL-130.2	Test Fuel Category	This field will automatically be filled based on the Test Fuel Category (TI-44) in Test Information) .	NA	NA	1n per FE Label 1 (1 per test fuel type)	A(3)	Enumeration				
GL-130.5	Test 5-Cycle Category		NA	NA 1	1n per FE Label (1 for each Test within ear Subconfiguration within each Configuration within each Base Level within 1 each Model Type)	ch n A(5)	Enumeration				
GL-130.5	Test 5-Cycle Category- Continued	A valid test number is required for these fuel categories.	NA	NA							
GL-130.5	Test 5-Cycle Category- Continued		NA	NA							

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GL-131	Analytically-Derived FE / CREE Indicator	Is this test analytically derived?	NA	NA	1	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1)	Enumeration							July 2014
<u>GL-132</u>	Data Substitution Indicator	Enter the applicable Data Substitution Indicator for this test.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails/ / SubConfigurationDetails/ TestVehicleDetails	s e DataSubstitutionIndicat or	1	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1)	Enumeration							_
GL-133	Averaging Method	Enter the Averaging Method to be used if this Test Number is part of an averaging group (i.e. subconfiguration equipped with a multi-mode transmission or Shift Indicato Light), where: N = No averaging S = Simple averaging (Sum(i=1 to n) (FET(i) * WT(i))) H = Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i)))) Note: WT(i) = Averaging Weighting Factor (GL-135) of the MPG value, specified by the manufacturer based on EPA's Guidance (ref: CCD-01-25R, CD-87-01 and A/C 83A): and, EFT(i) = MPG of test.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails/ / SubConfigurationDetails/ TestVehicleDetails	s e AveragingMethodIdentii	1	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1)	Enumeration							
GL-134	Averaging Group Indicator	Enter the Averaging Group Indicator assigned by the manufacturer that will be used to identify all the tests (of the same test procedure) that need to be averaged together.	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ TestVehicleDetails	s e AveragingGroupIndicat or	0	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	A(1)	String	1	1	[A-Z0-9]				
GL-135	Averaging Weighting Factor	Enter the averaging weighting factor for this vehicle mpg if equipped with either Shift Indicator Light (SIL) or multi-mode transmission. (Formerly 'Test Group Weighting' in CFEIS).	FuelEconomyLabel Submission/ FuelEconomyLabel Details/ ModelTypeDetails/ BaseLevelDetails/ ConfigurationDetails/ J SubConfigurationDetails/ TestVehicleDetails	s e AveragingWeightingFa ctorValue	0	1n per FE Label (1 for each Test within each Subconfiguration within each Configuration within each Base Level within each Model Type)	N(3,2)	Decimal			3	2	0.01	0.99	_
GL-136	EPA FE Label Comments EPA Entered Fuel Cost Fiel	EPA only: Enter any additional comments regarding the FE Label for this Model Type. ds (The database tables for thes	e fields should	ManufacturerComment Text be moved to be a s	0 tand-alone	1 per FE Label (able.)	A(1000)	String	1	1000					

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		Verify table that stores the fuel cost for				1 for each Fuel Licego										
	Fuel Cost (for each fuel usage	that is entered by EPA to calculate annual				Type per Model Year in										
GL-175	type)	fuel costs for each fuel economy label.	NA	NA	1	Verify Table	N(6,2)	Decimal				6	2		9999.99	
						1 for each Fuel Usage										
CL 175 1	Fuel Cast Madel Year	The fuel cost model year entered by EPA	NA	NA	1	Type per Model Year in	N(A)	Integer	1	4					2050	
GE-175.1	Fuel Cost model Teal	lor each luer usage type.	INA	NA	1		11(4)	Integer	4	4					2030	-
						1 for each Fuel Usage Type per Model Year in										
GL-177	Fuel Cost Effective Date	The effective date of the fuel cost value.	NA	NA	1	Verify Table	Date	Date								
						1 for each Fuel Usage										
						Type per Model Year in										
GL-178	Fuel Cost Ineffective Date	The ineffective date of the fuel cost value.	NA base table for each r	NA model veer)	1	Verity Lable	Date	Date								-
	EPA Entered 5-fear Fuer Cost of t	ne Average venicle (new stand-alone data	base table for each i	nouel year)			-	-				-				-
		EPA will provide the 5-Year Fuel Cost of														
		model year. Only the latest value should														
	5-Year Fuel Cost of Average	be treated as active, however all previous														
GL-264	Vehicle	values should be saved for reference.	NA	NA	1	1 per Model Year	N(6)	Integer						0	999,999	-
CL 265	5-Year Fuel Cost of Average	The model year for the corresponding 5-	NA	NA	1	1 por Databaco Tablo	N(A)	Integer							2100	
GL-205		The fuel Cost of the Average Venicle.	INA	INA	1	I per Database Table	IN(4)	integer							2100	-
GI -266	5-Year Fuel Cost of Average Vehicle- Effective Date	of the Average Vehicle	NA	NA	1	1 per Model Year	Date	Date								
	5-Year Fuel Cost of Average	The ineffective date of the 5-Year Fuel			-	2 por model rota	Duto	Buio								-
GL-267	Vehicle- Ineffective Date	Cost of the Average vehicle.	NA	NA	0	1 per Model Year	Date	Date								
	EPA Entered Derived 5-Cycle Calc	ulation Constants (4 constants required for	or each Model Year e	entry)												
		Verify table that stores the required city														
		entered by EPA to calculate the city fuel														
		economy for derived 5-cycle fuel economy														
		labels.														
		Also used for the Litmus Threshold				1 for each Model Year										
GL-180	Derived 5C City Slope Constant	calculation.	NA	NA	1	entry in Verify Table	N(7,6)	Decimal				5	4	0.0000	9.9999	
		offset constant for each model year that is														
		entered by EPA to calculate the city fuel														
		economy for derived 5-cycle fuel economy														
		labels.														
		Also used for the Litmus Threshold				1 for each Model Year										
GL-181	Derived 5C City Offset Constant	calculation.	NA	NA	1	entry in Verify Table	N(7,6)	Decimal				7	6	0.000000	9.999999	_
		Varify table that stores the required														
		highway slope constant for each model														
		year that is entered by EPA to calculate the														
		highway fuel economy for derived 5-cycle														
	Derived 5C Highway Slope	Also used for the Litmus Threshold				1 for each Model Year						_				
GL-182	Constant	calculation.	NA	NA	1	entry in Verify Table	N(7,6)	Decimal				5	4	0.0000	9.9999	4
		Verify table that stores the required														
		highway offset constant for each model														
		year that is entered by EPA to calculate the														
		highway fuel economy for derived 5-cycle														
	Derived 5C Highway Offset	Also used for the Litmus Threshold				1 for each Model Year		D				_			0.000000	
GL-183	Constant	calculation.	NA	NA	1	entry in Verity Table	N(7,6)	Decimal				1	6	0.000000	9.999999	_

Allowed Values	Industry	Process	Notes/Questions	Originator	Collection Point	<u>Collection</u> <u>Type</u>	Applicable Business Rules
l = New dataset							
C = Correction of an existing Verify dataset	Light-Duty	FE Label		Mfr	Front End	XML	
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR001a LD-FE-GL-BR001b LD-FE-GL-BR002 LD-FE-GL-BR180 LD-FE-GL-BR195
	Light-Duty	FE Label		Verify	Front End	XML	LD-FE-GL-BR001a LD-FE-GL-BR001b LD-FE-GL-BR002 LD-FE-GL-BR042 LD-FE-GL-BR043 LD-FE-GL-BR044a LD-FE-GL-BR044b LD-FE-GL-BR180
	3			- ,			
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR001a LD-FE-GL-BR001b LD-FE-GL-BR002 LD-FE-GL-BR004 LD-FE-GL-BR180
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR005 LD-FE-GL-BR196 LD-FE-GL-BR197
	Light-Duty	FE Label		Verify	Front End	Assigned	
	Light-Duty	FE Label		Manufacturer	Front End	XML	CR-BR11 CR-BR12 LD-FE-GL-BR097 LD-FE-GL-BR165
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-CA-BR169 LD-FE-CA-BR208 LD-FE-GL-BR003 LD-FE-GL-BR004 LD-FE-GL-BR045 LD-FE-GL-BR045 LD-FE-GL-BR098
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-CA-BR169 LD-FE-CA-BR208 LD-FE-GL-BR004 LD-FE-GL-BR046 LD-FE-GL-BR098

				Outy Data Requirer	nents		
	Light-Duty	FE Label	This rule change is needed due to the 4 new Carline Class Codes added for Small and Standard SUVs.	Mfr	Front End	XML	LD-FE-CA-BR169 LD-FE-CA-BR208 LD-FE-GL-BR004 LD-FE-GL-BR047 LD-FE-GL-BR098 LD-FE-GL-BR137
	Light-Duty	FE Label	The Testgroup Name will be used to pull in the Hybrid/Combustion Engine Description information (TG-26 through TG-35) from Testgroup Information. The referenced data elements (GL-16 through 54) do not need to be re-stored in FE Label tables, but, they do need to be displayed on FE Label screens.	Mfr	Front End	XML	LD-FE-GL-BR006 LD-FE-GL-BR050 LD-FE-GL-BR199 LD-FE-GL-BR200 LD-FE-GL-BR202 LD-FE-GL-BR204
						Dra svistina	
E = Electric Motor	Light-Duty	FE Label	TG-7.1	Verify	Back End	Data	
N - No Y - Yes	Light-Duty	FE Label	NEW TG-7.2	Verify	Back End	Pre-existing Data	
G - Gasoline D - Diesel M - Methanol E - Ethanol CNG - Compressed Natural Gas LNG - Liquified Natural Gas LPG - Liquid Petroleum Gas H - Hydrogen EL - Electricity HYD - Hydraulic	Light-Duty	FE Label	NEW TG-7.3	Verify	Back End	Pre-existing Data	LD-FE-CA-BR166 LD-FE-CA-BR167
MFI = Multipoint/sequential fuel injection CMIX = CNG mixer unit GDI = Spark Ignition Direct fuel injection GDPI = Spark Ignition direct & ported injection LMIX = LPG Mixer CRDI = Common Rail Direct Diesel Injection GFI = Gaseous Fuel Injection DDI = Direct Diesel Injection IDI = Indirect Diesel Injection TBI = Throttle Body Injection OT = Other (contact EPA prior to use)	Light-Duty	FE Label	NEW TG-7.4	Verify	Back End	Pre-existing Data	
N=No Y=Yes	Light-Duty	FE Label	NEW TG-7.4.1	Verify	Back End	Pre-existing Data	
SEPARATE - Fuels Stored Separately TOGETHER- Fuels Stored Together	Light-Duty	FE Label	NEW TG-7.6	Verify	Back End	Pre-existing Data	
SEPARATE- Fuels Combusted Separately TOGETHER - Fuels Combusted Together	Light-Duty	FE Label	NEW TG-7.7	Verify	Back End	Pre-existing Data	
N - No Y - Yes	Light-Duty	FE Label	NEW TG-7 8	Verifv	Back End	Pre-existing Data	
N - No	Light Dur	. E Label	NEW	Varif	Deals Fard	Pre-existing	
r - res	Lignt-Duty	⊢E Label	16-7.9	verity	Back End	Data	

			Verify Light-D	uty Data Require	ments		
N - No Y - Yes	Light-Duty	FE Label	NEW TG-8.3	Verify	Back End	Pre-existing Data	
EM = IC Engine/Electric Motor			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5)				
EH = IC Engine/Hydraulic OT = Other	Light-Duty	FE Label	TG-26	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	·		Dro Evicting	
	Light-Duty	FE Label	TG-27	Verify	Back End	Data	
4SI - 4-Stroke Spark Ignition 2SI - 2-Stroke Spark Ignition 4SCI - 4-Stroke Compression Ignition 2SCI - 2-Stroke Compression Ignition RT - Rotary GT - Gas Turbine RK - Rankine STIR - Striling			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
OT - Other	Light-Duty	FE Label	TG-28	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
	Light-Duty	FE Label	TG-29	Verify	Back End	Data	
I = Inline V = V-shaped engine H = Horizontally Opposed W = W-shaped engine RT = Rotary			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
OT = Other	Light-Duty	FE Label	TG-30	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
	Light-Duty	FE Label	TG-31	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
	Light-Duty	FE Label	TG-32	Verify	Back End	Data	
N = No Y = Yes	Light-Duty	FE Label	TG-32.5	Verifv	Back End	Pre-Existing Data	
						Pro-Evisting	
	Light-Duty	FE Label	TG-32.6	Verify	Back End	Data	
	Light-Duty	FE Label	The Engine Configuration Number along with the Testgroup Name (GL-13.5) will be used to pull in the Hybrid/Combustion Engine Description information (TG-26 through TG-35) from Engine Configuration Information within Testgroup Information. The referenced data elements (GL-16 through 54) do not need to be re-stored in FE Label tables, but, they do need to be displayed on FE Label screens.	Mfr	Front End	XML	LD-FE-GL-BR006 LD-FE-GL-BR040 LD-FE-GL-BR199 LD-FE-GL-BR200
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	LD-FE-CA-BR203
	Light-Duty	FE Label	TG-38	Verify	Back End	Data	LD-FE-GL-BR199

Y = Yes			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	, ,		Pre-Existing	
N = No	Light-Duty	FE Label	TG-39	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Dro Evicting	
	Light-Duty	FE Label	TG-40	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
Y = Yes N = No	Light-Duty	FE Label	TG-41	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Dec Evictica	
	Light-Duty	FE Label	TG-42	Verify	Back End	Data	
N - N			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Dec Evictica	
N = No	Light-Duty	FE Label	TG-43	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-44	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	ž			
	Light-Duty	FE Label	TG-45	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	,			
	Light-Duty	FE Label	TG-46	Verify	Back End	Pre-Existing Data	
NA=Naturally aspirated TC=Turbocharged SC=Supercharged			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			P. F. M.	
OT=Other	Light-Duty	FE Label	TG-47	Verify	Back End	Data	LD-FE-CA-BR204 LD-FE-GL-BR200
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Dec Evictica	
	Light-Duty	FE Label	TG-48	Verify	Back End	Data	
N = Single P = Parallel S = Series			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pro-Evisting	
PS = Both (Parallel and Series)	Light-Duty	FE Label	TG-49	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
	Light-Duty	FE Label	TG-50	Verify	Back End	Data	
A = Air I = Liquid			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pre-Existing	
N = N/A	Light-Duty	FE Label	TG-51	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Pro-Evisting	
	Light-Duty	FE Label	TG-52	Verify	Back End	Data	
B = Batterv(s)			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5)				
C = Capacitor	Light-Duty	EE Label	TG-77	Vorify	Back End	Pre-Existing	
		FE LADEI	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	veniy	DAUK EHU	Dala	1
	Light-Duty	FE Label	TG-78	Verify	Back End	Pre-Existing Data	

			VorifyLight	uty Data Poquiro	monte		
LA = Lead Acid NIMH = NIMH			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	outy Data Require	nents	Dro Existing	
OT = Other	Light-Duty	FE Label	TG-79	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-80	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-81	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-82	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-83	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	,			
	Light-Duty	FE Label	TG-84	Verify	Back End	Pre-Existing Data	
ON = On-Board			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
OFF = Off-Board B = Both	Light-Duty	FE Label	TG-85	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-86	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-87	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-88	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-89	Verify	Back End	Data	
NA = Not applicable (default) ERE = Electrical Regen Brake			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Des Existiss	
OT = Other	Light-Duty	FE Label	TG-90	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-91	Verify	Back End	Pre-Existing Data	
F = Front Wheels			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
R = Rear Wheels B = Both	Light-Duty	FE Label	TG-92	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
N = No Y = Yes	Light-Duty	FE Label	TG-93	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-94	Verify	Back End	Pre-Existing Data	

			Verify Light-L	Duty Data Require	nents		
ACI = AC Induction DCB = DC Brushless DCPM = DC Permanent Magnet, brushless			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).			Dro Evisting	
OT = Other	Light-Duty	FE Label	TG-95	Verify	Back End	Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-96	Verifv	Back End	Pre-Existing Data	
		TE Eaber	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5)	Veniy	Buok End	Duit	
	Light-Duty	FE Label	TG-97	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FF I abel	TG-98	Verify	Back End	Pre-Existing Data	
	Light Duty	1 L 2000	GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).	, comp	Buok End	Bala	
	Light-Duty	FE Label	TG-99	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-100	Verify	Back End	Pre-Existing Data	
			GL-16 through GL-65 has been previously entered in Certification data. It can be derived from the Verify back end via the Test Group (GL13.5).				
	Light-Duty	FE Label	TG-101	Verify	Back End	Pre-Existing Data	
	, , , , , , , , , , , , , , , , , , ,			, ,			
A = Automatic AM = Automated Manual M = Manual SA = Semi-Automatic CVT= Continuously Variable							
SCV=Selectable Continuously Variable (e.g. CV1 with paddles) AMS= Automated Manual- Selectable (e.g. Automated Manual with paddles) OT = Other	Light-Duty	EE Label		Mfr	Front End	XMI	LD-FE-CA-BR202 LD-FE-GL-BR093 LD-FE-GL-BR117 LD-FE-GL-BR145 LD-FE-GL-BR144
	Light Duty				THOME ENd	XIIIE	
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR007
Y = Yes N = No	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-CA-BR202 LD-FE-GL-BR117
Y = Yes N = No	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-CA-BR202 LD-FE-GL-BR117
							LD-FE-CA-BR202 LD-FE-GL-BR058
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR117

			Verify Ligh	it-Duty Data Require	ments		
4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P= Part-time 4-wheel drive A = All wheel drive	Light-Duty	EE Label		Mfr	Front End	XMI	LD-FE-CA-BR202
	Light-Duty			IVIII		AWIL	
1 = No gear ratio < 1 2 = Top gear ratio < 1							
	Light-Duty	FE Label		Mfr	Front End	XML	
N = No Y = Yes	Light Duty			N 45-	Front End	YMI	
	Light-Duty	FE Label		MIT		XIVIL	LD-FE-GL-BR008
N - No							
Y = Yes	Light-Duty	FE Label		Mfr	Front End	XML	
N = Not applicable V = Continuously variable, user selectable C = Computer controlled multiple gear ratios 1 = 1 discrete lock-up rpm ranges 3 = 3 discrete lock-up rpm ranges 4 = 4 discrete lock-up rpm ranges 5 = 5 discrete lock-up rpm ranges 6 = 6 discrete lock-up rpm ranges 7 = 7 discrete lock-up rpm ranges 8 = 8 discrete lock-up rpm ranges 9 = 9 discrete lock-up rpm ranges 9 = 9 discrete lock-up rpm ranges	Light-Duty	FE Label		Mfr	Front End	XML	
 N = Not applicable V = Continuously variable C = Computer controlled multiple gear ratios 1 = 1 discrete lock-up rpm ranges 2 = 2 discrete lock-up rpm ranges 3 = 3 discrete lock-up rpm ranges 4 = 4 discrete lock-up rpm ranges 5 = 5 discrete lock-up rpm ranges 6 = 6 discrete lock-up rpm ranges 7 = 7 discrete lock-up rpm ranges 8 = 8 discrete lock-up rpm ranges 9 = 9 discrete lock-up rpm ranges 	Light-Duty	FE Label		Mfr	Front End	XML	
N = No Y = Yes L = Yes, but with lock-out features	Light-Duty	FE Label		Mfr	Front End	XML	

			Verify Light-	Duty Data Requirer	nents		
Determined by Verify from GL-67 (Transmission Type) and GL-71 (Total number of Transmission Gears) as follows: If GL-67 is: A= "Auto(AX)" AM = "Auto(AXX)" M = "Manual(MX)" SA = "Auto(XX)" CVT= "Auto(AV)" SCV= "Auto(AV-SX)" AMS= "Auto(AV-SX)" OT = "Other(OT-X)" Derived field is in quotes where: X is the total number of forward gears listed in GL-71.	Light-Duty	FE Label	Determined by Verify from GL-67 (Transmission Type) and GL-71 (Total number of Transmission Gears) as follows: If GL-67 is: A = "Auto(AX)" AM = "Auto(AX)" M = "Manual(MX)" SA = "Auto(AX)" GVT = "Auto(AV)" SVC = "Auto(AV-SX)" OT = "Other(OT-X)" Derived field is in quotes where: X is the total number of forward gears listed in GL-71.	Verify	Back End	Assigned	
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR099
5C-DRV = Derived 5-cycle label 5C-VEHSPEC = Vehicle Specific 5-cycle label 5C-MOD = Derived Vehicle Specific 5-cycle Calculation Approach for city label but Modified 5- cycle Calculation Approach for Highway label EV = Electric Vehicle 2-cycle label EV-SC = Electric Vehicle 5-cycle label EV-SC = Electric Vehicle 5-cycle label PHEV = Plug-in Hybrid Label	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR100 LD-FE-GL-BR101
HEV-2B = Hybrid 2 Bag HEV-4B = Hybrid 4 Bag	Light-Duty	FE Label		Mfr	Front End	XML	
CD-2C = Charge Depleting 2-cycle CD-5C = Charge Depleting 5-cycle	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR102
CS-2C = Charge Sustaining 2-cycle CS-3C = Charge Sustaining 3-cycle CS-5C = Charge Sustaining 5-cycle	Light-Duty	FF Label		Mfr	Front End	XML	LD-FE-GL-BR103

			Verify Li	ight-Duty Data Require	ments			Office of Transportation and Air Qualit
								July 201
							Note to CSC: this data element	
							name change should only be	
V - Ves							made to the front and back-end	
N = No	Light-Duty	FE Label T	This can be submitted for all model years.	Manufacturer	Front End	XML	XML or database.	
			,					
N = No (default)								
Y = Yes	Light-Duty	FE Label		EPA	Back End	Assigned	_	
Valid calendar date.	Light-Duty	FE Label		Mfr	Front End	XML		
N = No		EE LUNI			E			
Y = Yes	Light-Duty	FE Label		Mfr	Front End	XML	_	
CA - California + CAA Section 177 states								
FA = Federal	Light-Duty	FE Label		Mfr	Front End	XML		
Display full list of all US states	Light-Duty	FE Label		Mfr	Front End	XML	 4	
			This field is derived from Cert data by matching Testgroup (GL-13.5).					
	Light-Duty	EE Label	CR-7.	Vorify	Back End	Pre-existing		
		FE Lavei		veniy	DALK ENU	uala		

			Verify Ligh	it-Duty Data Require	ments		
N = No		==	Even though the city, highway, or combined mpg will be lower, EPA should				
Y = Yes (city, highway or both are lower)	Light-Duty	FE Label	recalculate the combined mpg for use in the annual fuel cost estimation.	MTr	Front End	XML	
1							
2							
3							
4							
5							
7							
8							
9							
10	Light-Duty	FE Label	This is a new field.	Manufacturer	Frontend	XML	LD-FE-GL-BR146
1							
2							
3							
5							
6							
7							
8							
9	Light-Duty	FF Label		Verify	Backend	Assigned	
10	Light-Duty			VCIIIy	Backena	, Joigheu	
1							
3							
4							
5							
6							
8							
9							
10	Light-Duty	FE Label	This is a new field.	Manufacturer	Frontend	ХМL	LD-FE-GL-BR148

			Verify Light-Duty Data Requ	rements		
1						
2						
3						
5						
6						
7						
9						
10	Light-Duty FE Label		Verify	Backend	Assigned	
						LD-FE-GL-BR006
						LD-FE-GL-BR050
						LD-FE-GL-BR150
						LD-FE-GL-BR151
						LD-FE-GL-BR153
						LD-FE-GL-BR154
	Light-Duty FE Label		Mfr	Front End	XML	LD-FE-GL-BR155
1 2						
3						
4						
5						
7						
8						
9		weight to the second field				
10	Light-Duty FE Label	I his is a new field.	Manufacturer	Frontend	XML	LD-FE-GL-BR156
1						
3						
4						
5						
7						
8						
9 10			Vorifi	Backand	Assigned	
			veniy	Backenu	rasiyi ieu	
						LD-FE-GL-BR159
	Light-Duty FE Label		Manufacturer	Frontend	XML	LD-FE-GL-BR160

			Verify Light-	Duty Data Require	ments		
	Light-Duty	EE Label		Verify	Backend	Assigned	
	Light-Duty			veniy	Dackenu	Assigned	
							ID-EE-CL-RP150
	Light-Duty	FF Label	This is a new field	Manufacturer	Frontend	хмі	I D-FE-GL-BR163
	Light Duty	I L Lubei		Manaraotarer	Trontend		
	Light-Duty	FE Label		Verify	Backend	Assigned	
N = No							
Y = Yes				Verify	Backend	Assigned	
	Light Dur		"Deline only" yokiele should not be included in the Eyel Frances O. 19	N 46-1	Front Fard	VEAL	
r = res	Light-Duty	FE Label	Police only vehicle should not be included in the Fuel Economy Guide	MIT	I ⊢ront End	XML	
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--	--						
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			Verify Light	-Duty Data Require	ements		
N - N-							
IN = INO							LD-FE-GL-BR011
Y = Yes	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR012
PL - Polabol - Jabol value decreased							ID-EE-CL-BP012
RL - Relabel ention Jabel value increased	Light Duty			N Afr	Front Fod	VM	
RH = Relabel option - label value increased	Light-Duty	FE Label		MIT	Front End	XIVIL	LD-FE-GL-BR014
Y = Yes							
$N = N_0$	Light-Duty	FF Label	This is a new field	Verify	Back End	Assigned	
	Light Duty	. 2 2000.		101119	Daon Ena	ricolgilou	
	Light-Duty	FE Label	This is a new field.	Verify	Back End	Assigned	
		-					
G = Gasoline (Regular Unleaded Recommended)							
GM = Gasoline (Mid Grade Unleaded							
Decommonded)							
(NAD - Casalina (Mid Crade Unleaded Dorn in it)							
GIVIR = Gasoline (Mid Grade Unleaded Required)							
GP = Gasoline (Premium Unleaded Recommended)							
GPR = Gasoline (Premium Unleaded Required)							
D = Diesel, low sulfur (500 ppm) (obsolete after							
MY2006)-							
DLL = Diesel ultra low sulfur (15 ppm maximum)							
DO - Diesei, ulua iow sullui (15 ppili, illaxilliulii)							
							LD-FE-GL-BR015
E = Ethanol (E85)							LD-FE-GL-BR016
CNG = Compressed Natural Gas							LD-FE-GL-BR049
	1			1	1	1	
LNG = Liquefied Natural Gas							LD-FE-GL-BR051
LNG = Liquetied Natural Gas							LD-FE-GL-BR051
LNG = Liquefied Natural Gas LPG = Liquid Petroleum Gas							LD-FE-GL-BR051 LD-FE-GL-BR104a
LNG = Liquefied Natural Gas LPG = Liquid Petroleum Gas H = Hydrogen	Light Dut		Evisiting values of 'D' (Dissel, Jaw sulfur (EQO appr)) are valid	N 46-		YM	LD-FE-GL-BR104a LD-FE-GL-BR104a LD-FE-GL-BR104b

			Verify Light-D	uty Data Requirer	nents		
MPG = miles per gallon (default)							LD-FE-GL-BR017 LD-FE-GL-BR018 LD-FE-GL-BR041 LD-FE-GL-BR105 LD-FE-GL-BR106 LD-FE-GL-BR107
KW-HR/100Miles = kilowatt-hour per 100 miles	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR167 LD-FE-GL-BR168
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR169
		FE Label	EPA-Calculated Annual Fuel Cost (GL-81.1) = 15,000 x "Fuel Cost (for each Fuel Usage Type)" (GL-175) / "EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label Combined FE Value" (GL-245) Rounding: ASTM round the result to the nearest \$50. Note: ASTM [Value / 50,0] x 50. This should result in values ending exactly in "25" should round down and values ending exactly in "75" should round up. Only perform this calculation if MY (GL-3) >= "2013". Don't perform this calculation for EVs and PHEVs (ie, where one of the fuel usage values (GL-89) = "EL") until EPA provides the final calculation requirements. Verify should use the previous model year Fuel Costs until the new model year values are available.	Verifv	Backend	Assianed	
		FE LADEI		verity	васкепа	Assigned	
	Light-Duty	EE Label		Mfr	Front Ford	YMI	
1	Light-Dutv	⊢⊢ Label		Mfr	Front End	I XML	

		Verify Light-	Duty Data Requirer	nents		
 Light-Duty	FE Label		Mfr	Front End	XML	
Light-Duty	FF ahol		Mfr	Front End	XMI	
	I L LADEI		14111		AWIL	
 Light-Duty	FE Label		Mfr	Back End	XML	
Light-Duty	FE Label		Mfr	Back End	XML	
<u>g</u> y						
Light-Duty	FE Label		Mfr	Back End	XML	

			Verify Light-	Duty Data Require	nents		
Lig	ight-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR170
Lig	ight-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR171
Lig	ight-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR172
Lig	ight-Duty	FE Label		Verify	Backend	Assigned	
	ight_Duty	EE Labol		Vorifi	Backand	Assigned	
	igni-Duly	FE Lavei		veniy	DAUKEIIU	Assigned	
Liq	ight-Duty	FE Label		Verify	Backend	Assigned	

			Verify Light-	Duty Data Requirer	nents		
		FF Labor			EE		
Ligr	Int-Duty	FE Label		MTr	Front End	XML	
Liah	ht-Duty	FE Label		Mfr	Front End	XML	
Ligh	ght-Duty	FE Label		Mfr	Front End	XML	
Ligh	ght-Duty	FE Label		Mfr	Back End	XML	
Liah	ht-Duty	FE Label		Mfr	Back End	XML	

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		Verify Light-Duty Data Require	ments		
Light-Duty	FE Label	Mfr	Back End	XML	
1					
1					
1					
1					
1					
Light Dur	FF 1	5. The second	Front Fred	A	
 Light-Duty	⊢E Label	Verity	Front End	Assigned	
1					
1					
Light-Duty	FE Label	Verify	Front End	Assigned	
		Volty			
1					
1					
1					
1					
1					
1					
1					
1					
1					
Links D. (FE L		Energy End	A	
 Light-Duty	⊢E Label	Verity	⊢ront End	Assigned	
1					
1					
1					
1					
1					
1					
1					
1					
1					
1					
1					
1					
			.		
 Light-Duty	⊢E Label	Verify	Backend	Assigned	
1					
1					
1					
1					
1					
1					
1					
1					
1					
1					

		Verifv Light-I	Duty Data Require	nents]
Light-Dut	/ FE Label		Verify	Backend	Assigned	
			Venity	Duckend	Assigned	
						LD-FE-GL-BR021a
						LD-FE-GL-BR023 LD-FE-GL-BR104a
Light-Duty	/ FE Label		Mfr	Front End	XML	LD-FE-GL-BR104b LD-FE-GL-BR110 LD-FE-GL-BR111
				Tront Life	7.002	
						LD-FE-GL-BR021b LD-FE-GL-BR024
						LD-FE-GL-BR104a LD-FE-GL-BR104b LD-FE-GL-BR140
Light-Duty	/ FE Label		Mfr	Front End	XML	LD-FE-GL-BR141
						LD-FE-GL-BR021b LD-FE-GL-BR104a
						LD-FE-GL-BR104b LD-FE-GL-BR113a LD-FE-GL-BR113b
Light-Duty	/ FE Label		Mfr	Front End	XML	LD-FE-GL-BR114
Light-Duty	/ FE Label		Mfr	Back End	XML	

72351601 FE Label+

		Verify Light-	Duty Data Require	ments			
		Verify Light	.,	···			
Light-Duty	FF Label		Mfr	Back End	XMI		
Light_Duty	EE Labol		Mfr	Back End	YMI		
Light-Duty			IVIII	Dack Lilu	XIVIL		
Light-Duty	⊢E Label		Manufacturer	⊩rontend	XML	LD-FE-GL-BR182	
			1				
Light-Duty	EE Label		Manufacturer	Frontend	хмі	I D-FF-GL-BR183	
					/		

			Verify Light-	Duty Data Require	ments		
			, ,	, ,			
Light	nt-Duty	EE Label		Manufacturer	Frontend	XMI	ID-EE-GL-BP184
Light		FL Labei		Manufacturer	FIUILIEIIU		LD-FL-GL-BR104
l inht-	nt-Duty	FE Label		Verify	Backend	Assigned	
	it buty .	. 2 2000.		v 0)	Buonona	, looigilou	
Light-	nt-Duty I	FE Label		Verify	Backend	Assigned	
Light-	nt-Duty I	FE Label		Verify	Backend	Assigned	
							I D-FE-GL-BR022a
							LD-FE-GL-BR022h
							LD-FE-GL-BR0220
							I D-FE-GL-BR023
							LD-EE-GL-BR10/a
							I D-FE-GL-BR104b
							ID-EE-GL-BR109
Light	iht-Duty	EE Label		Mfr	Front End	XMI	
Light	ni-Duty 1	FL Layer		IVIII			LD-FE-GL-DRIII

					LD-FE-GL-BR022a LD-FE-GL-BR022b LD-FE-GL-BR022c LD-FE-GL-BR104a LD-FE-GL-BR104a LD-FE-GL-BR104b LD-FE-GL-BR139 LD-FE-GL-BR139	
Light-Duty	FE Label	Mir	Front End	XML	LD-FE-GL-BR141 LD-FE-GL-BR025a LD-FE-GL-BR025b LD-FE-GL-BR104a LD-FE-GL-BR1104a LD-FE-GL-BR113a LD-FE-GL-BR113a LD-FE-GL-BR113a LD-FE-GL-BR114 LD-FE-GL-BR115	
		Mfr	Frontend	XML	LD-FE-GL-BR188	
Light-Dutv	FE Label	Verify	Backend	Assigned		

Verify Light-Duty Data Requirements

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		Verify Li	ght-Duty Data Require	ments		
 Light-Duty	FE Label		Verify	Backend	Assigned	
Light-Dutv	FE Label		Verify	Backend	Assigned	
3.2.0			,		5	
	EE Labol		Vorifi	Backand	Accianod	
Light-Duty	FE Laber		veniy	Баскепи	Assigned	
		Inis is a new field.				
Light-Duty	FF Label	Blended PHEVs have 2 fuel consumption values	Manufacturer	Frontend	хмі	I D-FE-GI -BR205
Eight Duty						
			Manufacture	Frankan I		
			Manufacturer	⊢rontend	IXML	LD-FE-GL-BR162

			Verify Light-	Duty Data Require	ments		
			Verify Light- This is a new field. Adjusted Combined Model Type Fuel Consumption = 100 / "EPA-Calculated 5-Cycle Rounded Adjusted Model Type Final Label Combined FE Value" (GL-245) For fuel usage = electricity, enter the charge depleting fuel consumption (which is normally zero for electric vehicles and non-blended PHEVs, but may not be zero for blended PHEVs). For PHEVs enter the fuel consumption for gasoline or diesel fuel usage as appropriate. For fuel usage = hydrogen, enter fuel consumption in units of kilogram per 100 miles. Based on Adjusted Combined MPG. Rounding: ASTM round the result to one decimal place. Do not calculate for EVs or PHEVs (ie, where one of the Fuel Usage Values (GL-89) is not "EL") unit EPA provides the final calculations	Duty Data Require	ments		
	Light-Duty	FE Label		Verify	Backend	Assigned	
1-999	Light-Duty	FE Label	Delete this field since it is now longer required by the regulations and since there are no values are in the database. EDIT: This field is still required because there is data in the database that has been submitted for this data element.	Mfr	Front End	XML	LD-FE-GL-BR026a LD-FE-GL-BR026b LD-FE-GL-BR147
1-999	Light-Duty	FE Label	Delete this field since it is now longer required by the regulations and since there are no values are in the database. EDIT: This field is still required because there is data in the database that has been submitted for this data element.	Mfr	Front End	XML	LD-FE-GL-BR026a LD-FE-GL-BR026b LD-FE-GL-BR189
1-999	Light-Duty	FE Label	Delete this field since it is now longer required by the regulations and since there are no values are in the database. EDIT: This field is still required because there is data in the database that has been submitted for this data element.	Mfr	Front End	XML	LD-FE-GL-BR026a LD-FE-GL-BR026b LD-FE-GL-BR187
1-999	Light-Duty	FE Label	Delete this field since it is now longer required by the regulations and since there are no values are in the database. EDIT: This field is still required because there is data in the database that has been submitted for this data element.	Mfr	Front End	XML	LD-FE-GL-BR026a LD-FE-GL-BR026b LD-FE-GL-BR186

		Vorifielight	Duty Data Boquira	monto		
		Verify Light-	Duty Data Require	(nents		
Light-Duty	FE Label	'nnn' = Single range 'nnn/nnn' = Shortest and longest ranges for this model type that have available multiple fuel tank capacities.	Mfr	Front End	XML	LD-FE-GL-BR048 LD-FE-GL-BR116a LD-FE-GL-BR116b
Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR029 LD-FE-GL-BR181 LD-FE-GL-BR185
Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR030
Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	LD-FE-GL-BR178
Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	LD-FE-GL-BR178

		Verify Light-I	Duty Data Require	nents		
 Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	LD-FE-GL-BR176
						LD-FE-GL-BR173
 Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	LD-FE-GL-BR174
Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	LD-FE-GL-BR164
 Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	LD-FE-GL-BR158
		This is a new field.				
		This will be a future calculation once EPA has the final calculation requirements. New				
 Light-Duty	FE Label	business rules may need to be added in the future.	Verify	Backend	Assigned	
Light-Duty	FE Label	This is a new field.	Mfr	Front End	XML	

			Verify Light-	Duty Data Require	ments		
				, ,			
			This is a new field.				
			This will be a future calculation once EPA has the final calculation requirements. New) (a sife :	Deelvered	A	
	Light-Duty	FE Label	business rules may need to be added in the future.	verily	Васкепо	Assigned	
N - Not exempt							
T - Truck							
1 - Unloaded GVWR > 6000 lbs (not applicable to							
IIMOUSINES) 2 - Emergency Vehicle							
3 - IRS Alternative Rate Schedule							
5 - Vehicle can not operate on gasoline or diesel fuel							
	Light-Duty	FE Label		Mfr	Front End	XML	
	Light-Duty	FE Label		Verify	Back End	Assigned	
			Calculate model type mpg for gas guzzler indication as specified in 40 CFR 600.513				
			for each passenger automobile model type.				
			Gas Guzzlar calculation results should be submitted by manufacturars for non-every				
	Light-Dutv	FE Label	Gasoline and Diesel passenger vehicles only.	Manufacturer	Front End	XML	LD-FE-GL-BR138
Y = Yes		EE Label		Vorify	Book End	Accianad	
mission Class and Inertia Weight Class"				veniy		Assigned	
initiation of ass and merita weight of ass							
			Assigned by Verify as a sequential incrementer for each base level (i.e. inertia weight				
			class) entered by the mfr. Data elements GL-110 through GL-116 make this a				
	Light-Duty	FE Label	repeating dataset.	Verify	Front End	XML	

			Verity Light-	Duty Data Requiren	nents		
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR052 LD-FE-GL-BR063 LD-FE-GL-BR064 LD-FE-GL-BR065 LD-FE-GL-BR066 LD-FE-GL-BR067 LD-FE-GL-BR069 LD-FE-GL-BR070 LD-FE-GL-BR071 LD-FE-GL-BR071 LD-FE-GL-BR073 LD-FE-GL-BR075 LD-FE-GL-BR076 LD-FE-GL-BR076 LD-FE-GL-BR076
	Light Duty	. E Eddor			Tront End		
G = Gasoline (Regular Unleaded Recommended) GM = Gasoline (Mid Grade Unleaded Recommended) GPR = Gasoline (Mid Grade Unleaded Required) GPR = Gasoline (Premium Unleaded Recommended) GPR = Gasoline (Premium Unleaded Required) D = Diesel, low sulfur (500 ppm) (obsolete after MY2006), DU = Diesel, low sulfur (500 ppm) (obsolete after MY2006), DU = Diesel, ultra low sulfur (15 ppm, maximum) M = Methanol E = Ethanol (E85) CNG = Compressed Natural Gas LNG = Liquefied Natural Gas LNG = Liquefied Natural Gas H = Hydrogen EL = Electricity BE = Battery Electric PE = Plug-in Hybrid Electric	Light-Duty	FE Label	Existing values of 'D' (Diesel, low sulfur (500 ppm)) are valid.	Mfr	Front End	XML	LD-FE-GL-BR049 LD-FE-GL-BR092 LD-FE-GL-BR094 LD-FE-GL-BR095 LD-FE-GL-BR096
	Light-Duty	FE Label		Mfr	Front End	XML	
	Light-Duty	FE Label	1	Mfr	Front End	XML	

		Verify Light-Du	uty Data Requirer	nents		
Light-Dut	FE Label		Mfr	Front End	XML	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light Dut			Vorifi	Book End	Accigned	
			veniy	DACK EIIU	Assigned	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	FE Label		Verify	Back End	Assigned	
			voniy		7.05igiicu	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	y FE Label		Verify	Back End	Assigned	
Light-Dut	FELabel		Verify	Back End	Assigned	

		Verity Light-	Duty Data Require	nents		
Light-Du	ty FE Label		Verify	Back End	Assigned	
d Transmission Configuration within a Base Level"						LD-FE-GL-BR036a LD-FE-GL-BR036b LD-FE-GL-BR053 LD-FE-GL-BR053
			MIL		XML	LU-FE-GL-BRU/8
Light-Du	ty FE Label		Mfr	Front End	XML	LD-FE-GL-BR055
Light-Du	ty FE Label		Mfr	Front End	XML	LD-FE-GL-BR055
Liaht-Du	ty FE Label		Mfr	Front End	XML	LD-FE-GL-BR055
Light-Du	ty FE Label		Verify	Back End	Assigned	

		Verify Light-Duty [[,] Data Requiren	nents		
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
Light-Duty	/ FE Label		Verify	Back End	Assigned	
	. EE Lahal			Deals Fast	A i	
Light-Duty	/ FE Label		veniy	васк Епа	Assigned	
	/ EE Label		Verify	Back End	Assigned	
			verity	DACK LIIU	Assigned	
Light_Duty	/ FE Lahel		Verify	Back End	Assigned	
			VCITY	Duck Lind	nooigricu	
and road-load horse power, etc. within a configuration						
, and roughout horse porter, etc. within a connightation.						

			Verify Light-	Duty Data Require	nents		
							LD-FE-GL-BR054
	Light Duty	EE Lobol		Mfr	Front End	VI AI	LD-FE-GL-BR192
	Light-Duty	FE Label		IVIII	Front End	XML	LD-FE-GL-BR193
							LD-FE-GL-BR056
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-RL-BR004b
1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875,							
2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875.							
4000, 4250, 4500, 4750,							
5000, 5250, 5500, 6000, 6500, 17000, 7500, 8000, 8500,							
9000, 9500,10000, 10500,							LD-FE-GL-BR056
11000, 11500, 12000, 12500, 13000, 13500, 14000	Light-Duty	FE Label		Mfr	Front End	XMI	LD-FE-GL-BR062
13000, 13300, 14000	Light Duty			IVIII	Tronc End	XIVIE	
A = All altitude							
L = Low altitude only							
H = Hign altitude only	Light-Duty	⊢⊢ Label		Mfr	Front End	XML	
		EE Labol		Vorify	Back End	Accimod	
				venny	Dauk Ellu	Assigned	
	Light-Duty	FE Label		Verify	Back End	Assigned	
	Light Duty			veniy	Buok End	, asigned	
	Light-Duty	FE Label		Verify	Back End	Assigned	

			Verify Light-Duty Data Require	ments		
	Light-Duty	FE Label	Verify	Back End	Assigned	
	Light-Duty	FE Label	Verify	Back End	Assigned	
				Deels Field	Anninunad	
	Lignt-Duty	FE Label	Verity	васк Епо	Assigned	
	Light-Duty	EE Label	Verify	Back End	Assigned	
	Light-Duty		Veniy	Dack Lilu	Assigned	
	Light-Duty	FE Label	Verify	Back End	Assigned	
	Light-Duty	FE Label	Mfr	Front End	XML	LD-FE-GL-BR206
	9					
, and road-load horse power, etc. within a configu	ration.					
						LD-FE-GL-BR059
						LD-FE-GL-BR117
	Light-Duty	FE Label	Verify	Front End	XML	LD-FE-GL-BR201

			Must be present when Subconfiguration Index (GL-121) is 1 to 49 and Configuration Index (GL-117) is 1 to 499 which indicates that the subconfiguration is represented by a tested vehicle; otherwise, must not present.				
	.ight-Duty	FE Label		Mfr	Front End	XML	
L	.ight-Duty	FE Label	TG-2	Mfr	Front End	XML	LD-FE-GL-BR034 LD-FE-GL-BR118 LD-FE-GL-BR119 LD-FE-GL-BR198 LD-FE-GL-BR203
L	.ight-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR061 LD-FE-GL-BR117
	.ight-Duty	FE Label	Verify Light-	Duty Data Requirem	Front End	XML	LD-FE-GL-BR060 LD-FE-GL-BR117

			Verify Light-	Duty Data Requirer	nents		
	Light-Duty	FE Label	TI-1	Mfr	Front End	XML	LD-FE-GL-BR035 LD-FE-GL-BR036a LD-FE-GL-BR036c LD-FE-GL-BR036c LD-FE-GL-BR037b LD-FE-GL-BR037b LD-FE-GL-BR057 LD-FE-GL-BR057 LD-FE-GL-BR057 LD-FE-GL-BR057 LD-FE-GL-BR124 LD-FE-GL-BR124 LD-FE-GL-BR126 LD-FE-GL-BR126 LD-FE-GL-BR129 LD-FE-GL-BR129 LD-FE-GL-BR130 LD-FE-GL-BR131 LD-FE-GL-BR132 LD-FE-GL-BR132 LD-FE-GL-BR144 LD-FE-GL-BR144 LD-FE-GL-BR144 LD-FE-GL-BR144
	Light-Duty	FE Label	Find 'Vehicle ID' (TI-4) via Test Number (GL-127). TI-4> VI-2	Verify	Back End	Pre-existing data	LD-FE-GL-BR120
	Light-Duty	FE Label	Find 'Vehicle Configuration Number' (TI-5) via Test Number (GL-127). TI-5> VI-3	Verifv	Back End	Pre-existing data	LD-FE-GL-BR120
FTP = Federal Test Procedure US06 = US06 SC03 = SC03 HWY = Highway NOx EVAP = Evaporative SPIT = Spitback ORVR = On-board Refueling Vapor Recovery NCNHE = Non-City, Non-Highway Exhaust URBRNG = Urban Range HWYRNG = Highway Range AC-IDLE = A/C Idle Test CD = Charge Depleting EVAP-COMP = Evaporative - Component EVAP-I EK = Evaporative - Leak	Light-Duty	EE abol	This field will automatically be filled based on the test procedure (in "Test" section) associated with the test number. A valid test number is required for these test categories. EVAP = 23, 27, 34, 38, 43, 47 FTP = 2, 11, 21, 25, 31, 35, 41, 45, 51, 52 HWY = 3 HWYRNG = 63 NCNHE = 9, 10, 72, 76 ORVR = 24, 32, 37, 44 SC03 = 95 SPIT = 15 URBRNG = 62 US06 = 16, 90, 96 A/C Idle = 60, 61, 87, 88 Charge Depleting = 81, 83, 84, 85, 86 EVAP-COMP = 64, 65 EVAP-LEAK = 66, 67, 68, 69	Verify	Back End	Pre-existing	

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			Verify Light-	Duty Data Requirer	nents		
EL = Electricity CNG = Natural Gas D = Diesel E = Ethanol G = Gasoline			EL= 62 CNG = 10, 41 D = 9, 19 E = 36, 37, 38, 43, 44, 45, 71 G = 1, 6, 7, 8, 22, 23, 24, 25, 26, 27, 61	Duty Data Requirer	nents		
H = Hydrogen LPG = LPG			H = 50 LPG = 42			Pre-existing	
M = Methanol	Light-Duty	FE Label	M = 31, 32, 33, 34	Verify	Backend	data	
FTP75 = Federal Test Procedure (75 °F) FTP20 = Federal Test Procedure (20 °F) US06 = US06 SC03 = SC03 HWY = Highway Nox	Light-Duty	FE Label	This field will automatically be filled based on the test procedure (in "Test" section) associated with the test number. A valid test number is required for these test categories. FTP75 = 2, 21, 25, 31, 35, 41, 45 FTP20 = 11 HWY = 3 SC03 = 95 US06 = 90	Verify	Back End	Pre-existing data	LD-FE-GL-BR122 LD-FE-GL-BR123

			Verify Light-	Duty Data Requirer	nents		
N=No ∕r≃Yes	Light-Duty	FE Label	The fuel economy values for this vehicle that represent a sub-configuration were generated by an EPA-approved analytically-derived method, in lieu of testing (ref: 40 CFR 600.006(e) and CCD-04-06). Notes: 1. # of ADFE must be no more than 20% of the subconfigurations tested 2. May not use any ADFE with a combined FE of less than 1.0 mpg above the gas Guzzler Tax \$0 threshold (currently, 23.5 mpg) 3. May not use any ADFE with a combined fuel economy >= the leader in the applicable Carline class based on the previous model year's unadjusted general label values rounded to a whole mpg. TI-13.5	Verify	Back End	Pre-existing data	LD-FE-GL-BR133
1 100	Light Duty	1 2 2000		romy	Baon End	uuu	EB I E GE BIGIGG
N = No Y = Yos	Light-Duty	EE Label		Mfr	Front End	YMI	LD-FE-GL-BR079
r – res	Light-Duty	FE Laber		IVIII	FIONLENU	XIVIL	LD-FE-GL-BR134
N = No averaging S = Simple averaging (Sum(i=1 to n) (FET(i) * VT(i))) H = Harmonic averaging 1/(Sum(i=1 to n) (FET(i) / WT(i)))	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR079 LD-FE-GL-BR088 LD-FE-GL-BR089 LD-FE-GL-BR136
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR038 LD-FE-GL-BR080 LD-FE-GL-BR081 LD-FE-GL-BR082 LD-FE-GL-BR083 LD-FE-GL-BR084 LD-FE-GL-BR086 LD-FE-GL-BR090 LD-FE-GL-BR091
	Light-Duty	FE Label		Mfr	Front End	XML	LD-FE-GL-BR039 LD-FE-GL-BR085 LD-FE-GL-BR090 LD-FE-GL-BR091
	Light-Duty	FE Label		EPA	Back End	Assigned	
	<u> </u>						

These are database only fields.			Verify Light-	Duty Data Require	nents		
This is the table used to perform EPA fuel cost calculations in GL-81.1 (to verify mfr's calculated annual fuel cost). The new model year uses the previous model year's fuel cost values until EPA							
determines and enters new updated fuel cost values.	Light-Duty	FE Label		EPA	Back End	Assigned	
These are database only fields.	Light-Duty	FE Label		EPA	Back End	Assigned	
These are database only fields. Old values for fuel cost for the same model year must be saved in the database.	Light-Duty	FE Label		EPA	Back End	Assigned	
These are database only fields. Old values for fuel cost for the same model year must be saved in the	Linkt Duty			504	Deck Fed	Assisted	
database.	Light-Duty	FE Laber		EPA	Back End	Assigned	
		EE Labal		504	Dealward	Anninund	
		FE Label		EPA	васкепо	Assigned	
	Light-Duty	FE Label		EPA	Backend	Assigned	
	Light-Duty	FE Label		EPA	Backend	Assigned	
	Light-Duty	FE Label		EPA	Backend	Assigned	
These are database only fields.							
This is the table used to perform EPA derived 5- cycle label calculations. Any Model Year that does			These fields are entered by EPA no more than once per model year (they are not expected to change every year).				
Model Year's coefficients.	Light-Duty	FE Label	Table should be initialized with 2008 Model Year value = 1.1805	EPA	Back End	Assigned	
These are database only fields.							
This is the table used to perform EPA derived 5- cycle label calculations. Any Model Year that does			These fields are entered by EPA no more than once per model year (they are not expected to change every year).				
Model Year's coefficients.	Light-Duty	FE Label	Table should be initialized with 2008 Model Year value = 0.003259	EPA	Back End	Assigned	
These are database only fields.							
This is the table used to perform EPA derived 5- cycle label calculations. Any Model Year that does			These fields are entered by EPA no more than once per model year (they are not expected to change every year).				
Model Year's coefficients.	Light-Duty	FE Label	Table should be initialized with 2008 Model Year value = 1.3466	EPA	Back End	Assigned	
These are database only fields.							
This is the table used to perform EPA derived 5- cycle label calculations. Any Model Year that does			These fields are entered by EPA no more than once per model year (they are not expected to change every year).				
Model Year's coefficients.	Light-Duty	FE Label	Table should be initialized with 2008 Model Year value = 0.001376	EPA	Back End	Assigned	

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Tier 3 Update (Release 15.0)												
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	<u>Required</u>	Multiplicity	Basic 1 Data De Type	Data Type escrip tion	<u>Min</u> Length	<u>Max</u> Length	Pattern	Total Digits
Certificate Request Information												
		Select the desired process code					En	numer				
CR-0.5	Process Code	for the current submission.	CertificateRequestSubmissionInformation/CertificateRequestInformationDetails	RequestProcessCode	1		A(1) ati	ion	1	1		
0.0.1	Nasufashuas Cada	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	CertificateRequestSubmissionInformation/		1		A(2) 6	Ctring	2	0	14 70 01/0	
CR-1	Manufacturer Code	account.	CertificateRequestifiormationDetails/ManufacturerSpecificDetails	EPAManulaclurerCode	1		A(3) 3	Sunny	3	3	[A-Z0-9]{3	
CR-3	Model Year	Enter the applicable model year for this test group.	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ManufacturerSpecificDetails	ModelYear	1		N(4) Ni	umber	4	4		
CR-4	Test Group	Enter the applicable test group name for the Certificate Request.	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ManufacturerSpecificDetails	TestGroupName	1		A(12) 5	String	12	12	[A-HJ- NPR-TV- Y1-9]{1}[A: Z0-9] {4,11}([\\.] [A-Z0-9] {1,6})?	
CR-5	Evaporative/Refueling Family Name	Enter the applicable evaporative/refueling family name for this Certificate Request.	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ManufacturerSpecificDetails	EvaporativeRefuelingFamilyName	0		A(12) S	String	12	12	[A-HJ- NPR-TV- Y1-9]{1} [A-Z0-9] {4}[0-9]{4 [A-Z0-9] {3}	ł
CR-7	Commerce Introduction Date	Enter the date this Test Group will be entered into commerce.	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ManufacturerSpecificDetails	CommerceIntroductionDate	0		1 (Y N	Date YYYM MDD)			[1-2]{1}[0 9]{3}[0-1] {1}[0-9]{1] [0-3]{1}[0- 9]{1}	
CR-9	Meet All Applicable Standards Indicator	Do all the tested vehicles meet all the applicable standards?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	MeetAllApplicableStandardsIndicator	0		Er	numer ation				
CR-10	Meet All Applicable Requirements Indicator	Does this test group/evaporative family comply with all the applicable requirements of 40 CFR Parts 85, 86, 88, 600, 1037, 1065, 1066 and other regulations which may apply?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	MeetAllApplicableRequirementsIndicator	0		Er	numer ation				
CR-11	OBD System Approval Indicator	test group/evaporative family been approved by EPA or CARB?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	OBDSystemApprovalIndicator	0		Er	numer ation				

Date

			Verify Light-Duty Data Requirements					Office of Transpo	rtation and Air Qu
CR-12	CARB Executive Order Issued Indicator	If this a California only Test Group have you received the applicable CARB executive order?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	CARBExecutiveOrderIssuedIndicator	0		Enumer ation		July 2
CR-13	CARB Executive Order Number	If yes, what is the executive order number?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	CARBExecutiveOrderNumberText	0		String	1 15	
CR-14	ORVR System Approval Indicator	Has the safety of the ORVR system for this evaporative/refueling family been approved by EPA?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	ORVRSystemApprovalIndicator	0		Enumer ation		
CR-15	Compliance Fee Paid Indicator	Has the full amount of the applicable certification fees been paid for this test group?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	ComplianceFeePaidIndicator	0		Enumer ation		
CR-16	No Defeat Device Indicator	Are the vehicles covered by this test group/evaporative family free of defeat devices and strategies?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	NoDefeatDeviceIndicator	0		Enumer ation		
CR-22	GHG Pre-Model Year Report Indicator	Has the green house gas pre- model year report been submitted to EPA for this mode yearand does it meet all requirements 40 CFR 600.514 or 40 CFR 1037.104?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	PreModelYearReportIndicator	0		Enumer ation		
CR-17	CAP2000 Conditional Certificate	Does this test group and evaporative family need a CAP 2000 conditional certificate because EPA confirmatory testing is pending (i.e., a test has been scheduled with EPA but has not occurred at the time a certificate is being requested?	certificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	CAP2000ConditionalIndicator	0		Enumer ation		
CR-18	Independent Commercial Importer Certificate	Is this an Independent Commercial Importer (ICI) certificate?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	ICICertificateIndicator	0		Enumer ation		
CR-19	Alternate Fuel Converter Certificate	Is this an alternative fuel converter certificate?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	AlternateFuelConverterCertificateIndicator	0		Enumer ation		
CR-20	Certificate Locking Comment	Enter any comments for this certificate locking request.	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	LockCommentText	0	A(1000)	String	1 1000	
CR-21	New Certificate Needed	Is a revised certificate needed?	CertificateRequestSubmissionInformation/ CertificateRequestInformationDetails/ApplicationSpecificDetails	RevisedCertificateIndicator	0		Enumer ation		

Verify Light-Duty Data Requirements

actional Digits	<u>Min</u> <u>Value</u>	<u>Max</u> <u>Value</u>	Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
			N = New							
			L = Lock Request							
			I = Introduction Into Commerce	Light Duty	Cortification		Manufacture	Front End	VMI	
				Light-Duty	Certification		1	FIONLENU	XIVIL	
										LD-CERT-CR-BR019
										LD-CERT-CR-BR020a
				Light Duty	Certification		Verify	Front End	XML	LD-CERT-CR-BR020c
										LD-CERT-CR-BR002
										LD-CERT-CR-BR019
							Manufacture			LD-CERT-CR-BR020
	1957	2100		Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR028
										LD-CERT-CR-BR002
										LD-CERT-CR-BR016
										LD-CERT-CR-BR017 LD-CERT-CR-BR019
										LD-CERT-CR-BR021
				Light Duty	Certification		Manufacture	Front End	ХМІ	LD-CERT-CR-BR022
				Light Duty				T TOTIC EITG	XIVIE	
										LD-CERT-CR-BR001
										LD-CERT-CR-BR016 LD-CERT-CR-BR017
							Manufacture			LD-CERT-CR-BR019
				Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR021
							N			
				Light Duty	Certification	Testgroup Info?	r	Front End	XML	LD-CERT-CR-BR011 LD-CERT-CR-BR012
				<u> </u>	-					· · ·
			Y = Yes				Manufacture			LD-CERT-CR-BR012
			N = NO	Light Duty	Certification		r	⊢ront End	XML	LD-CERT-CR-BR018
						CSC: Only the front-end				
			V - Voc			Cert Request question text	Manufactura			
			N = No	Light Duty	Certification	description)	r	Front End	XML	LD-CERT-CR-BR012
			Y = Yes				Manufacture			LD-CERT-CR-BR012

							Veri	y Light-Duty Data Requirements
	Y = Yes N = No			If "NA" is selected, Verify should treat it as a "Yes" and this should not block the	Manufacture			I D-CERT-CR-BR012
	NA = Not Applicable	Light Duty	Certification	certificate from being issued.	r	Front End	XML	LD-CERT-CR-BR018
					Manufacture			
		Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR015
	Y = Yes	Light Duty	Cortification		Manufacture	Front End	VMI.	LD-CERT-CR-BR012
	N = NO		Certification		1	FIOILEIIU	NVIL	LD-CERT-CR-BR018
	X = Yee				Manufactura			
	N = No	Light Duty	Certification		r	Front End	ХМІ	LD-CERT-CR-BR012
		Light Duty	Continotation			1 Ione End	,	
	Y = Yes				Manufacture			LD-CERT-CR-BR012
	N = No	Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR018
	Y = Yes				Manufacture			
	N = No	Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR024
	Y = Yes	Light Duty	Cortification		Manufacture	Front End	VMI	
			Cerunication		1		NVIL	LD-CERT-CR-DRUIZ
	X - Yoc				Manufactura			
	N = No	Light Duty	Certification		r	Front End	ХМІ	LD-CERT-CR-BR012
	V - Vos	Light Duty			Manufacture			
	N = No	Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR012
					Manufacture			
		Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR013
	Y = Yes				Manufacture			LD-CERT-CR-BR014
	N = No	Light Duty	Certification		r	Front End	XML	LD-CERT-CR-BR029

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date:	2014-September-26

EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Basic Data Type	Data Type Description	<u>Min</u> Length	<u>Max</u> Length	Pattern
	New dataset for "Readload Information". This dataset will be due of	tor the FE I and datacat since this datacat	references model two information that is collected	d in the FE I shel detect. Some of	the fields will	be pulled in from th	o FE Lobol do	tacat bacad on	the Medel		r and Subcon
	New dataset for Roadioau mormation . This dataset will be due at		Telefences model type miorination that is conected					laset based on		Type muex	
		Select the desired process code for the									
RL-0.5	Process Code	current road load entry submission.	RoadLoadDataSubmission/RoadLoadDetails	InformationProcessCode	1	1 per Road Load	A(1)	Enumeration			
RL-1	Manufacturer Code	The three character code assigned by EPA to each manufacturer. This will be derived from users' CDX account.	RoadLoadDataSubmission/RoadLoadDetails	EPAManufacturerCode	1	1 per Road Load	A(3)	String	3	3	[A-Z0-9]{3}
RL-1.5	Road Load Index	The Verify-assigned unique index number for this road load submission.	RoadLoadDataSubmission/RoadLoadDetails	RoadLoadIndexNumber	1	1 per Road Load	N(5)	Integer			
RL-1.6	Model Year	Enter the model year for this road load entry.	RoadLoadDataSubmission/RoadLoadDetails	ModelYear	1	1 per Road Load	N(4)	Integer			
RL-1.7	FE Label Subconfiguration Reference Indicator	Does this road load data reference an existing FE Label subconfiguration?	RoadLoadDataSubmission/RoadLoadDetails	FuelEconomyLabelSubconfiguratio	1	1 per Road Load	A(1)	Enumeration			
RL-1.8	FE Label Manufacturer Code	Enter the manufacturer code of the manufacturer who submitted the FE Label.	RoadLoadDataSubmission/RoadLoadDetails	FuelEconomyLabelManufacturerCo de	1	1 per Road Load	A(3)	String	3	3	[A-Z0-9]{3}
RL-2	FE Label Model Type Index	Enter the Manufacturer-assigned index number for the model type for this road load entry.	RoadLoadDataSubmission/RoadLoadDetails	ModelTypeIndexNumber	1	1 per Road Load	N(3)	Integer			
RL-2.1	FE Label Base Level Index	For this set of road load data, enter the applicable FE Label Base Level index number if this subconfiguration was used in an FE label; otherwise, leave this field blank if the subconfiguration will be used in a future GHG/CAFE dataset.	RoadLoadDataSubmission/RoadLoadDetails/ FuelEconomyLabelSubConfigurationInformationDetail sT	BaseLevelIndexNumber	0	1 per Road Load	N(2)	Integer			
RL-2.2	FE Label Configuration Index	For this set of road load horsepower data, enter the applicable FE Label Configuration index number if this subconfiguration was used in an FE Label; otherwise, leave this field blank if the subconfiguration will be used in a future GHG/CAFE dataset.	RoadLoadDataSubmission/RoadLoadDetails/ FuelEconomyLabelSubConfigurationInformationDetail sT	ConfigurationIndexNumber	0	1 per Road Load	N(3)	Integer			
RL-3	FE Label Subconfiguration Index	For this set of road load horsepower data, enter the applicable FE Label subconfiguration index number if this subconfiguration was used in an FE label, otherwise leave this field blank if the subconfiguration will be used in a future GHG/CAFE dataset.	RoadLoadDataSubmission/RoadLoadDetails/ FuelEconomyLabelSubConfigurationInformationDetail S	SubConfigurationIndexNumber	0	1 per Road Load	N(2)	Integer			
BL-3.5	Release Date	The date this model type information can be released to the public.	NA	NA	1	1 per Road Load		Date (YYYYMMDD)			[1-2]{1}[0-9] {3}[0-1]{1}[0- 9]{1][0-3]{1} [0-9]{1}

			Verify Light-Duty Data Requirements							ffice of Tra	Insportation and
DI -4	Test Group	Enter the applicable test group name assigned by the manufacturer if this subconfiguration was not used in an FE	RoadLoadDataSubmission/RoadLoadDetails/	TestGroupName		1 n ner Poad Load	A(12)	String	12	12	
KL-4			RoadEoadSubConnigurationinionnationDetails	restoroupivarile			A(12)	Sung	12	12	
		Enter the applicable engine code assigned by the manufacturer if this subconfiguration was not used in an FE Label; otherwise, leave this field blank.	RoadLoadDataSubmission/RoadLoadDetails/								
RL-5	Engine Code		RoadLoadSubConfigurationInformationDetails	EngineCodeText		1 per Road Load	A(14)	String	1	14	
RL-5.1	Equivalent Engine Code(s)	Enter all applicable equivalent engine codes for the engine code for this road load entry.	RoadLoadDataSubmission/RoadLoadDetails/ RoadLoadDataDetails	EquivalentEngineCodeText	1	1n per Engine Code per Road Load	A(14)	String	1	14	
RL-6	In-Use Engine Code Decoder	Enter a description of the engine code for this road load entry that distinguishes it from similar engine codes per 600.512- 12(c)(11).	RoadLoadDataSubmission/RoadLoadDetails/ RoadLoadDataDetails	InUseEngineCodeDescriptionText	1	1 per Road Load	A(500)	String	1	. 501	0
RL-7	Displacement	Enter the applicable engine displacement in liters for this road load entry if this subconfiguration was not used in an FE Label; otherwise, leave this field blank.	NA	NA		1 per Road Load	N(5,3)	Decimal			
	Carlina Manufacturar Codo	Enter the applicable manufacturer code for	NA	NA	1	1 por Dood Lood	A(2)	String	2	2	[0 20 01(3)
KL-0		Unis roau roau entry.	INA INA	INA I	T		A(3)	Sung	3	3	[A-20-9]{3}
RL-9	Carline Division Code	for this road load entry.	NA	NA	1	1 per Road Load	N(2)	Integer	1	2	
RL-9.1	Carline Division Name	Enter the applicable carline division name for this road load entry.	NA	NA	1	1 per Road Load	N(2)	Integer	1	2	
RL-10	Carline Code	Enter the applicable carline code for this road load entry.	NA	NA	1	1 per Road Load	N(3)	Integer	1	3	
RL-10.1	Carline Name	Enter the applicable carline name for this road entry.	NA	NA	1	1 per Road Load	A(32)	Normalized string	1	32	
RL-11	Drive system	Enter the applicable drive system for this road load entry.	NA	NA	1	1 per Road Load	A(1)	Enumeration			
RL-12	Transmission Type	Enter the transmission type for this road load entry.	NA	NA	1	1 per Road Load	A(3)	Enumeration			
RL-13	Number of Transmission Gears	The number of transmission gears on this road load entry. If this vehicle is equipped with a "transmission type" of "CVT", enter "1" for the number of gears.	NA	NA	1	1 per Road Load	N(2)	Integer			

			Verify Light-Duty Data Requirements						i c	office of Tran	sportation and	Air Qua
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		Verify-determined Transmission Class for this road load entry based on the values for							i			
		Transmission Type and Number of							i			
RL-14	Transmission as listed in the FE Guide	Transmission Gears.	NA	NA	1	1 per Road Load	A(12)	Enumeration			<u> </u>	-
		Enter the axle ratio for this test vehicle road							l.		ĺ	
		load entry if this subconfiguration was not	RoadLoadDataSubmission/RoadLoadDetails/						l.		ĺ	
RL-15	Axle Ratio	field blank.	RoadEbadSubConngurationmonnationDetails	AxleRatioValue		1 per Road Load	N(3,2)	Decimal	i			
		Enter the standard tire/rim size description										
-		as imprinted on the side wall of the tire for	RoadLoadDataSubmission/RoadLoadDetails/									
RL-16	Rim and tire size	this road load entry	RoadLoadDataDetails	RimAnd LireSizeDescription Lext	1	1 per Road Load	A(20)	String	1	20	<u> </u>	-
									i			
									i			
									i			
									i			
PI -17	Tire Type	Select the applicable tire type for this road	RoadLoadDataSubmission/RoadLoadDetails/	TireTypeIdentifier	1	1 per Road Load	A(3)	Enumeration	i			
RL-17		Enter the tire manufacturer for this road	Road oadDataSubmission/Road oadDatails/	The Type dentilier			A(3)	Lindimeration			<u> </u>	•
RL-18	Tire Manufacturer	load entry.	RoadLoadDataDetails	TireManufacturerName	1	1 per Road Load	A(25)	String	1	25		
		Enter the applicable N/V ratio for this road	RoadLoadDataSubmission/RoadLoadDetails/						i			
RL-19	N/V Ratio	load entry.	RoadLoadDataDetails	NVRatioValue	1	1 per Road Load	N(4,1)	Decimal			<u> </u>	-
		Enter the curb weight in pounds for this							i			
		road load entry. Curb weight is defined as							i			
		the actual or mfr's estimated weight of the							i			
		standard equipment and weight of fuel at							i			
		nominal tank capacity and the weight of	Doodl oodDateSubmission/Doodl oodDateila/						i			
RL-20	Curb Weight	accordance with CER86.082-24.	RoadLoadDataSubmission/RoadLoadDetails/	CurbWeightValue	1	1 per Road Load	N(5)	Integer	i			
												1
					FALSE				i			
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		Coloct the equivalent test weight (CTM) in							i .		ĺ	
		pounds for this road load entry if this							l.		ĺ	
D: 04		subconfiguration was not used in an FE	RoadLoadDataSubmission/RoadLoadDetails/					Integer /	i		1	
RL-21	EIW	label; otherwise, leave this field blank.	RoadLoadSubConfigurationInformationDetails	Equivalent i estWeightValue		1 per Road Load	N(5)	Enumeration		'	<u> </u>	-
									1		1	
		Enter the total road load horsepower at 50 mph (TRI HP50) for this subconfiguration if							l.		ĺ	
		this subconfiguration was not used in an FE	RoadLoadDataSubmission/RoadLoadDetails/						i		1	
RL-22	Manufacturer-Calculated Total Road Load Horsepower	label, otherwise leave this field blank.	RoadLoadSubConfigurationInformationDetails	TotalRoadLoadHorsepowerValue		1 per Road Load	N(3,1)	Decimal			L]

			Verify Light-Duty Data Requirements						Office of Transportation and Air Quali July 20:
RL-23	Verify-Calculated Total Road Load Horsepower	The total road load horsepower at 50 mph (TRLHP50) as calculated by Verify for this road load entry.	RoadLoadDataSubmission/RoadLoadDetails/ EPAGeneratedDataDetails	TotalRoadLoadHorsepowerValue	1	1 per Road Load	N(3,1)	Decimal	
RL-24	Target Coefficient A (F0) (lbf)	Enter the target A-term coefficient from test track force vs. velocity equation for this road load entry. (lbf)	RoadLoadDataSubmission/RoadLoadDetails/ RoadLoadDataDetails	TargetCoefficientAValue	1	1 per Road Load	N(6,3)	Decimal	
RL-25	Target Coefficient B (F1) (lbf/mph)	Enter the target B-term coefficient from test track force vs. velocity equation for this road load entry. (lbf/mph)	RoadLoadDataSubmission/RoadLoadDetails/ RoadLoadDataDetails	TargetCoefficientBValue	1	1 per Road Load	N(6,5)	Decimal	
RL-26	Target Coefficient C (F2) (lbf/mph**2)	Enter the target C-term coefficient from test track force vs. velocity equation for this road load entry. (lbf/mph**2)	RoadLoadDataSubmission/RoadLoadDetails/ RoadLoadDataDetails	TargetCoefficientCValue	1	1 per Road Load	N(7,6)	Decimal	
RL-27	Road Load Determination Method	Select the applicable road load determination method for this road load entry.	RoadLoadDataSubmission/RoadLoadDetails/ RoadLoadDataDetails	RoadLoadDeterminationIdentifier	1	1 per Road Load	A(10)	Enumeration	
RL-28	Deletion Reason	Enter the reason this report is being deleted.	RoadLoadDataSubmission/ RoadLoadReportDeleteDetails	DeletionReportReasonText	0	1 per Road Load	A(500)	String 1	500

Verify Light-Duty Data Requirements

<u>Total</u> <u>Digits</u>	Fractional Digits	<u>Min Value</u>	Max Value	Allowed Values	Industry	Process	Notes/Questions	<u>Originator</u>	Collectio n Point	Collection Type	Applicable Business Rules
guration	Index entered	d by the manu	facturer in th	ne road load dataset and th	en the manu	ıfacturer will	enter another 12 fields and	l Verify will cal	culate 2 fi	elds.	
				N = New dataset C = Correction of existing Verify dataset	Light Duty	Road Load		Manufacturer	Front End	XML	
					Light Duty	Road Load		Manufacturer	Front End	XML	LD-FE-RL-BR001 LD-FE-RL-BR002
		1	99999		Light Duty	Road Load		Verify	Front End	XML	LD-FE-RL-BR003 LD-FE-RL-BR005 LD-FE-RL-BR016
					Light Duty	Road Load		Manufacturer	Front End	XML	LD-FE-RL-BR003 LD-FE-RL-BR005 LD-FE-RL-BR006 LD-FE-RL-BR016
				Y = Yes	Light Duty	Road Load		Manufacturer	Front End	XML	
					Light Duty	Road Load		Manufacturer	Front End	XML	LD-FE-RL-BR003 LD-FE-RL-BR005 LD-FE-RL-BR006 LD-FE-RL-BR008 LD-FE-RL-BR009 LD-FE-RL-BR010 LD-FE-RL-BR016
		1	999		Light Duty	Road Load		Manufacturer	Front End	XML	LD-FE-RL-BR003 LD-FE-RL-BR005 LD-FE-RL-BR006 LD-FE-RL-BR016
		1	99		Light Duty	Road Load	Assigned by Verify as a sequential incrementer for each base level (i.e. inertia weight class) entered by the mfr. Data elements GL-110 through GL-116 make this a repeating dataset.	Manufacturer	Front End	XML	LD-FE-RL-BR007 LD-FE-RL-BR011
3	0	1	999		Light Duty	Road Load		Manufacturer	Front End	XMI	LD-FE-RL-BR007
								Manufacturer	From End	VAT	LD-FE-RL-BR007
2			99		Light Duty	Road Load	GI -176	Verify	Front End	ZML Pre-existing	LD-FE-RL-BR011

									Verify	Light-Duty Dat	a Requirements
					Light Duty	Road Load	GL-126	Verify or Manufacturer	Back End or Front End	Pre-existing or XML	New LD-FE-RL-BR012 New LD-FE-RL-BR013 New LD-FE-RL-BR017
									Back End		
					Light Duty	Road Load	GI -119	Verify or Manufacturer	or Front	Pre-existing	I D-FE-RI -BR013
						Road Load		Manufacturer			
					Light Duty	Road Load		Manufacturer	Front End	XML	
					Light Duty	Road Load		Manufacturer	Front End	XML	
5	3	0.001	99.999		Light Duty	Road Load				Pre-existing	
					Light Duty	Road Load	GL-125.5	Verify	Back End	Pre-existing	
		1	99		Light Duty	Road Load	GL-125.6	Verify	Back End	Pre-existing	
		1	99		Light Duty	Road Load	Pulled in from Division table using Division Code	Verify	Back End	Pre-existing	
		1	999		Light Duty	Road Load	GL-125.7	Verify	Back End	Pre-existing	
		1	999		Light Duty	Road Load	CL-6	Verify	Back End	Pre-existing	
				4 = 4-wheel Drive F = 2-wheel Drive, front R = 2-wheel drive, rear P= Part-time 4-wheel drive A = All wheel drive	Light Duty	Road Load	GL-72	Verify	Back End	Pre-existing	
				A = Automatic AM = Automated Manual M = Manual SA = Semi-Automatic CVT= Continuously Variable SCV=Selectable Continuously Variable (e.g. CVT with paddles) AMS= Automated Manual- Selectable (e.g. Automated Manual with paddles) OT = Other	Light Duty	Road Load	GL-67	Verify	Back End	Pre-existing	
			00		Light Duty	Dood Los d	CI 71	Vorifi	Dook Erd		
	1	I T	99	1		I RUAU LUAU	UL-11	veniy	IDDUK ENU	I FIE-EXISUND	
									Verify	Light-Duty Dat	a Requirements
---	---	----------	--------	--	-------------	-----------	----------------------------	--------------	-----------	----------------	-----------------
				Determined by Verify from							
				GL-67 (Transmission Type)							
				and GL-/1 (Total number of							
				follows:							
				If GL-67 is:							
				A = "Auto(AX)"							
				M = "Manual(MX)"							
				SA = "Auto(SX)"							
				CVI = "Auto(AV)"							
				OT = "Other(OT-X)"							
				Davis and field is in avantas							
				where: X is the total number							
				of forward gears listed in							
				GL-71.	Light Duty	Road Load		Verify	Back End	Pre-existing	
								Verify or	Back End	Pro-ovicting	
3	2	0	9.99		Light Duty	Road Load	GL-120	Manufacturer	End	or XML	LD-FE-RL-BR013
					Light Duty	Road Load		Manufacturer	Front End	XML	
				-ALS = All Season							
				-AT = All Terrain -HPR = High Performance							
				-LRR = Low Rolling							
				Resistance	Linkt Dut :	Deedlard		14			
				-RF = RUN FIAL	Light Duty	Road Load		Manufacturer	Front End	XIVIL	
					Light Duty	Road Load		Manufacturer	Front End	XML	
4	1	0	999.9		Light Duty	Road Load		Manufacturer	Front End	XML	
							S. Devarapalli confirming				
							whether the first business				
							(depending on whether				
							ETW and Curb Weight are				
		0	14000		Light-Duty	Road Load	fields).	Manufacturer	Front end	XML	
							CL 100				
				1000 1125 1250 1375			GL-123				
				1500, 1625, 1750, 1875,							
				2000, 2125, 2250, 2375,							
				3000, 3125, 3250, 3375.							
				3500, 3625, 3750, 3875,							
				4000, 4250, 4500, 4750,			S.				
				6500,			whether the first business				
				7000, 7500, 8000, 8500,			rule is necessary				
				11000, 11500, 12000, 10500,			ETW and Curb Weight are		Back End		
		<u> </u>	4 4000	12500,			front end or back end	Verify or	or Front	Pre-existing	
		0	14000	13000, 13500, 14000	Light Duty	Road Load	tieias).	Manufacturer	End	or XML	LD-FE-RL-BR013
								Verify or	Back End	Pro-evicting	LD-FE-RL-BR004a
3	1	0	99.9		Light Duty	Road Load	GL-122	Manufacturer	End	or XML	LD-FE-RL-BR013

										Verify	Light-Duty Da	ta Requirements
	1	.	0	00.0			Deedlard	Calculation =) (a sife :	Deels Fred	A	LD-FE-RL-BR004a
3		L	0	99.9		Light Duty	Road Load	(a+50°D+2500°C)/7.5	verily	васк епо	Assigned	LD-FE-RL-BR0040
6	3	3	-999.999	999.999		Light Duty	Road Load		Manufacturer	Front End	XML	
		-	0.00000	0.00000			Deedland		Manufactura			
6	5	>	-9.99999	9.99999		Light Duty	Road Load		Manufacturer	Front End	XML	
7	6	6	-9.999999	9.999999		Light Duty	Road Load		Manufacturer	Front End	XML	
					-Calculated (Vehicle not							
					coasted down on track)							
					-Measured (Actual vehicle							
					coasted down on track)		Bood Lood		Manufacturor	Front End		
							Ruau Load		wanuacturer	FIONTEND		
						Light Duty	Road Load		Manufacturer	Front End	ХМL	LD-FE-RL-BR015

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date	2014-September-26						
Release TBD							
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Ba
his new footprint dataset wil	be required for trucks beginnin	g with model year 2010 and for cars be	ginning with model year 20	11.			
FT-0.5	Process Code	Select the desired process code for the current footprint entry submission.	FootprintDataSubmission/ FootprintDataDetails	InformationProcessC ode	1	1 per footprint submission	
FT-0.7	Submitter Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. For mfr tests- this will be derived from user's CDX user account. Otherwise, it will come from LOD Test Report data.	FootprintDataSubmission/ FootprintDataDetails	EPAManufacturerCo de	1		

							Basic Data	Data Type	Min	Max		<u>Total</u>	Fractional				
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	<u>Type</u>	Description	Length	Length	Pattern	Digits	Digits	Min Value	Max Value	Allowed Values	Industry
This new footprint dataset will	be required for trucks beginnin	ng with model year 2010 and for cars be	ginning with model year 20)11.													
FT-0.5	Process Code	Select the desired process code for the current footprint entry submission.	FootprintDataSubmission/ FootprintDataDetails	InformationProcessC ode	1	1 per footprint submission	A(1)	Enumeration					L			N = New dataset C = Correction of existing Verify dataset	Light Duty
FT-0.7	Submitter Manufacturer Code	The 3-character alphanumeric code assigned by EPA to each manufacturer. For mfr tests- this will be derived from user's CDX user account. Otherwise, it will come from LOD Test Report data.	FootprintDataSubmission/ FootprintDataDetails	EPAManufacturerCo de	1		A(3)	Fixed string	3	3	[A-Z0-9]{3}						Light-Duty
		Enter the 3-character alphanumeric code assigned by EPA to each manufacturer						g			<u>[,](.)</u>						
		for the carline for which footprint	FootprintDataSubmission/	CarlineManufacturer		1 per footprint					14 70 01/01						
FT-1	Carline Manufacturer Code	information is being submitted.	FootprintDataDetails	Code	1	submission	A(3)	Fixed string	3	3	[A-Z0-9]{3}						Light Duty
FT-2	Model Year	Enter the applicable model year for this carline for which footprint information is being submitted.	FootprintDataSubmission/ FootprintDataDetails	ModelYear	1	1 per footprint submission	N(4)	Integer						1957	2100		Light Duty
FT-3	Division Code	Enter the applicable division for this carline for which footprint information is being submitted.	FootprintDataSubmission/ FootprintDataDetails	ManufacturerDivisio nCode	1	1 per footprint submission	N(2)	Integer						1	99		Light Duty
FT 4		Enter the applicable carline code (assigned by the manufacturer) for this carline for which footprint information is	FootprintDataSubmission/	CorlingCode	1	1 per footprint	N(2)	latooor						1	000		Light Duty
F1-4		Denig Submitted.	rootprintDataDetailS	CallineCode	1	SUDITISSIUI	11(3)	meyer						1	333		
FT-5	Footprint Index	Verify-generated footprint index assigned to each footprint within a carline.	FootprintDataSubmission/ FootprintDataDetails/ FootprintIndexDetails	FootprintIndexNumb	1	1n for each footprint submission	N(2)	Interior				2	0	1	99		Light Duty

				Verify Light-Duty Data Requirement	ts	1						1	Office of Transpo	ortation and Air Qua
		Enter the manufacturer's model type and footprint description (e.g. "super cab, 4WD, long bed, Dooley"; "super cab, 2WD, short had" etc.) = Peneat for each	FootprintDataSubmission/	1 per footprint index per footprint										July 20
FT-6	Footprint Description	footprint within this carline.	FootprintIndexDetails Text	1 submission	A(300)	String	1	300						Light Duty
FT-37	Footprint Vehicle Type	Enter the vehicle type of the carline for this footprint.	FootprintDataSubmission/ FootprintDataDetails/ FootprintIndexDetails eldentifier	1 per footprint index per footprint 0 submission	A(2)	Enumeration							PV = Passenger Vehicle LT = Light Truck	Light Duty
				1 per fectorint										
FT-7	Wheel base (inches)	Enter the wheel base of this footprint for this carline measured in inches and rounded to one tenth of an inch.	FootprintDataSubmission/ FootprintDataDetails/ FootprintIndexDetails WheelBaseValu	e 1 submission	N(5,1)	Decimal			5	1	0.1	9999.9		Light Duty
FT-8	Front Track Width (inches)	Enter the front track width of this footprint for this carline measured in inches and rounded to one tenth of an inch.	FootprintDataSubmission/ FootprintDataDetails/ FootprintIndexDetails ue	/al 1 per footprint index per footprint 1 submission	N(4,1)	Decimal			4	1	0.1	999.9		Light Duty
				1 per footprint										
		for this carline measured in inches and	FootprintDataSubmission/ FootprintDataDetails/ RearTrackWidthV	alu footprint										
FT-9	Rear Track Width (inches)	rounded to one tenth of an inch.	FootprintIndexDetails e	1 submission	N(4,1)	Decimal			4	1	0.1	999.9		Light Duty
ET-10	Manufacturer-Calculated Footprint Rounded to One Decimal Place (cruare feet)	The Manufacturer-calculated area of this footprint for this carline according to the footprint definition specified in 49 CFR 523.2	FootprintDataSubmission/ FootprintDataDetails/ FootprintIndevDetails/	su 1 per footprint index per footprint submission	N(4.1)	Decimal				1	0.1	000 0		Light Duty
	EPA-Calculated Footprint Rounded to One Decimal Plac	The Verify-calculated area of this footprint for this carline according to the e footprint definition specified in 49 CFR	FootprintDataSubmission/ FootprintDataDetails/ EPAGeneratedDataDetails/ EPAGeneratedFootprintDet ails/ FPAGeneratedFootprintInde	1 per footprint index per footprint										
FT-11	(square feet)	523.2.	xResults easure	1 submission	N(4,1)	Decimal			4	1	0.1	999.9		Light Duty
FT-12	Discrepancy of Manufacturer and EPA-Calculated Footprint	The Verify-calculated absolute value of the discrepancy of the manufacturer and EPA-calculated footprint	FootprintDataDetails/ EPAGeneratedDataDetails/ EPAGeneratedDataDetails/ EPAGeneratedFootprintDet ails/ EPAGeneratedFootprintInde CorprintAreaMeasa VResults Discrenancy/all	1 per footprint Fo index per re footprint le 1 submission	N(4 1)	Decimal			4	1	0	999 9		Light Duty
			FootprintDataSubmission/									555.5		
FT-13	Manufacturer Footprint Target FE Value Rounded to Two Decimal Places (miles per gallon)	Enter the manufacturer-calculated target fuel economy value (in miles per gallon) of this footprint for this model type.	EPAGeneratedFootprintDet ails/ EPAGeneratedFootprintDet xDetails HenderatedFootprintInde xDetails EPAGeneratedFootprintInde FuelEconomyVal	Jet 1 per footprint index per footprint ue 1 submission	N(5,2)	Decimal			5	2	0.01	999.99		Light Duty
FT-14	EPA Footprint Target FE Value Rounded to Two Decimal Places (miles per gallon)	 The EPA-calculated target fuel economy value (in miles per gallon) of this footorint. 	FootprintDataSubmission/ FootprintDataDetails/ EPAGeneratedDataDetails/ EPAGeneratedFootprintDet ails/ EPAGeneratedFootprintInde EPAGeneratedFootprintInde XResults	1 per footprint index per footprint 1 submission	N(5.2)	Decimal			5	2	0.01	999,99		Light Duty

			EcotorintDataSubmission/		orify Light-Duty	VData Pequirement	c								Office of Transportation and Air Quality
			FootprintDataSubmission/	ľ			3								July 2014
			EPAGeneratedDataDetails/												1
		The EPA-calculated absolute value of	EPAGeneratedFootprintDet			1 per footprint									
		the discrepancy between the	ails/	ManufacturerEPATa		index per									
	Footprint Target FE	manufacturer and EPA Target FE	EPAGeneratedFootprintInde	rgetFuelEconomyDis		footprint									
FT-15	Discrepancy Value	values.	xResults	crepancyValue	1	L submission	N(5,2)	Decimal			5	2	0	999.99	Light Duty
			FootprintDataSubmission/												
			FootprintDataDetails/												
		Enter the manufacturer calculated target	EPAGeneratedEastprintDat			1 por footprint									
	Manufacturer Ecotorint Target	greenbouse gas value (in miles per	aile/	ManufacturorTarget		index per									
	GHG Value Rounded to One	gleenhouse gas value (in this per	EPAGeneratedEootnrintInde	GreenhouseGasValu		footprint									
FT-16	Decimal Place (grams per mile) type.	xDetails	e	0	submission	N(4.1)	Decimal			4	1	0	999.9	Light Duty
		/ 5/	FootprintDataSubmission/	-								_	-		
			FootprintDataDetails/												
			EPAGeneratedDataDetails/												
			EPAGeneratedFootprintDet			1 per footprint									
	EPA Footprint Target GHG	The EPA-calculated target greenhouse	ails/			index per									
FT 17	Value Rounded to Two Decima	a gas value (in miles per gallon) of this	EPAGeneratedFootprintInde	EPA l'argetGreennou		tootprint	NKA AX	Desimal				1		000.0	Links Durks
F1-17	Places (grams per mile)	iootprint.	XResults	seGasvalue	0	SUDITISSION	IN(4,1)	Decimai			4	T	0	999.9	Light Duty
			FootprintDataSubmission/												
			EPAGeneratedDataDetails/												
		The EPA-calculated absolute value of	EPAGeneratedFootprintDet			1 per footprint									
		the discrepancy between the	ails/	ManufacturerEPATa		index per									
	Footprint Target GHG	manufacturer and EPA Target GHG	EPAGeneratedFootprintInde	rgetGreenhouseGas		footprint									
FT-18	Discrepancy Value	values.	xResults	DiscrepancyValue	1	L submission	N(4,1)	Decimal			4	1	0.1	999.9	Light Duty
This is an EPA-Only database	e table that needs to be created.	EPA will need to enter these coeffiecie	ents into the database table	s before the CAFE a	nd GHG calcı	ulations can be c	ompleted								
FT-19	Footprint Coefficient Model	The applicable model year for each set	NA	NA	1	1 1	N(4)	Year	4	4	4	0	2008	2100	
	Year	of CAFE and GHG coefficients.													
FT-20	CAFE Footprint Target	EPA entered minimum allowed value for	NA	NA	1	1 per model	N(5,1)	Decimal			5	1	0	9999.9	
	Minimum Domestic Passenger	final Average Target FE calculation				year									
	Vehicle Standard	result. Applies to Domestically				-									
		manufactured Passenger Vehicles only.													
ET-21	CAFE Footprint Passenger	EPA entered coefficients needed for	NA	NA	1	1 1 ner model	N(11.7)	Decimal	+		11	7	0	000000000000000000000000000000000000000	
11-21	Vehicle Coefficient A	CAFE calculations with different		11/5	-	vear	N(11,7)	Decima			11	'	0	5555.5555555	
		coefficients for cars and trucks.				,									
ET-22	CAEE Ecotorint Bassenger	EBA entered coefficients needed for	ΝΔ	ΝΑ	1	1 1 nor model	N(11.7)	Decimal			11	7	0	000000000000000000000000000000000000000	
F1-22	Vehicle Coefficient B	CAEE calculations with different	NA I		-	vear	N(11,7)	Decima			11	· ·	0	3333.33333333	
		coefficients for cars and trucks				ycai									
FT 00	04555					1 4		D				-	-	0000 0000000	
F1-23	CAFE Footprint Passenger	EPA entered coefficients needed for	NA	NA	1	1 per model	N(11,7)	Decimal			11	1	0	9999.99999999	
	venicie Coenicient C	CAFE calculations with unreferit				year									
FT-24	CAFE Footprint Passenger	EPA entered coefficients needed for	NA	NA	1	1 per model	N(11,7)	Decimal			11	7	0	9999.9999999	
	Vehicle Coefficient D	CAFE calculations with different				year									
		coefficients for cars and trucks.													
FT-25	CAFE Footprint Light Truck	EPA entered coefficients needed for	NA	NA		1 per model	N(11,7)	Decimal			11	7	0	9999.9999999	
	Coefficient A	CAFE calculations with different				year			1						
		coefficients for cars and trucks.													
FT-26	CAFE Footprint Light Truck	EPA entered coefficients needed for	NA	NA	1	1 per model	N(11,7)	Decimal			11	7	0	9999.9999999	
	Coefficient B	CAFE calculations with different				year			1						
		coefficients for cars and trucks.													
FT-27	CAFE Footprint Light Truck	EPA entered coefficients needed for	NA	NA	1	1 per model	N(11,7)	Decimal	1		11	7	0	9999.9999999	
	Coefficient C	CAFE calculations with different				year									
		coefficients for cars and trucks.													
FT-28	CAFE Footprint Light Truck	EPA entered coefficients needed for	NA	NA	1	1 per model	N(11.7)	Decimal			11	7	0	9999,9999999	
	Coefficient D	CAFE calculations with different			-	vear						-	-		
		coefficients for cars and trucks.				,									
ET-20	GHG Footprint Passanger	EPA entered coefficients needed for	ΝΔ	NΔ	1	1 1 ner model	N(11 7)	Decimal	+	-	11	7	0	000000000000000000000000000000000000000	
F1-23	Vehicle Coeffecient A	CAEE calculations with different	NA I		-	vear	N(11,7)	Decima			11	· ·	0	5555.55555555	
		coefficients for cars and trucks				ycai									
ET 20	CHC Footprint December	EDA optored coefficients needed for	NA	NA	-	1 nor model	N(11 7)	Docimal	+	-	11	7	0	0000 000000	
F1-30	Vehicle Coeffections P	CAEE calculations with different	INA INA	INA	'		IN(11,7)	Decimai	1				U	3333.33333333	
	Venicle Coeliecielit D	coefficients for cars and trucks				year			1						
							N/4					_		0000 000000	
⊢⊺-31	GHG Footprint Passenger	EPA entered coefficients needed for	NA	NA	1	1 per model	N(11,7)	Decimal	1		11	7	0	9999.9999999	
	venicie Coerrecient C					year			1						
		coencients for cars and trucks.	1						1	1	1		1		

FT-32	GHG Footprint Passenger Vehicle Coeffecient D	EPA entered coefficients needed for CAFE calculations with different coefficients for cars and trucks.	NA	NA	Verify Light-Dut <u>y</u>	Datap Ba qwigenen year	ts N(11,7)	Decimal				11	7	0	9999.9999999	Office of Transport	ation and Air Qua July 2
FT-33	GHG Footprint Light Truck Coeffecient A	EPA entered coefficients needed for CAFE calculations with different coefficients for cars and trucks.	NA	NA	1	1 per model year	N(11,7)	Decimal				11	7	0	9999.99999999		
FT-34	GHG Footprint Light Truck Coeffecient B	EPA entered coefficients needed for CAFE calculations with different coefficients for cars and trucks.	NA	NA	1	1 per model year	N(11,7)	Decimal				11	7	0	9999.99999999		
FT-35	GHG Footprint Light Truck Coeffecient C	EPA entered coefficients needed for CAFE calculations with different coefficients for cars and trucks.	NA	NA	1	1 per model year	N(11,7)	Decimal				11	7	0	9999.99999999		
FT-36	GHG Footprint Light Truck Coeffecient D	EPA entered coefficients needed for CAFE calculations with different coefficients for cars and trucks.	NA	NA	1	1 per model year	N(11,7)	Decimal				11	7	0	9999.9999999		
NHTSA CAFE Vehicle Class	ification Information																
FT-40	Front Base Tire Code	Enter the U.S. DOT tire code of the <u>Front</u> Base Tire for this footprint, e.g. P245/35ZR19, P155/60R18, LT225/75R16.			1	1 per footprint index per footprint submission	A(20)	String	5	20	string must include ('R', 'r', 'D', 'd', 'B', or 'b') && '/'						Light Duty
		Enter the U.S. DOT tire code of the <u>Rear</u> Base Tire for this footprint, e.g.				1 per footprint index per footprint					string must include ('R', 'r', 'D', 'd','B',						
FT-42	NHTSA CAFE Vehicle Classification	Select <u>one</u> of the following numeric codes indicating the primary reason why the vehicle with this footprint is classified as a passenger car or light truck according for NHTSA CAFE purposes, ref. 49 CFR 523.5, as follows: Enter "0" for passenger cars; Enter "1" if vehicle can transport more than 10 persons; ref. 49 CFR 523.5 (a)(1); Enter "2" if vehicle can transport property on an open bed; ref. 49 CFR 523.5 (a)(2); Enter "4" if vehicle provides greater cargo- carrying volume than passenger-carrying volume; ref. 49 CFR 523.5 (a)(4); Enter "5" if vehicle provides expanded use of cargo carrying purposes as outlined in 49 CFR 523.5 (a)(5) and (a)(5)(ii); Enter "6" if vehicle is equipped with off- highway capable 4WD and meets at least 4 of 5 criteria outlined in 49 CFR 523.5(b)(2); Enter "7" if vehicle is rated at more than 6000 lbs GWWR and meets at least 4 of 5 criteria outlined in 49 CFR 523.5(b)(2);			1	1 per footprint index per footprint submission	A(1)	Enumeration								0 = Passenger Car 1 = Transport more than 10 persons 2 = Temporary living quarters 3 = Transport property on open bed 4 = Greater cargo-carrying than passenger-carrying volume 5 = Expanded use of cargo carrying purposes 6 = Off-higtway capable 4WD and at least 4 criteria met 7 = GVW > 6000 lbs. and at least 4 criteria met	Light Duty
FT-43	Approach Angle Value	Enter the Approach Angle in degrees (rounded to the nearest degree); ref 49 CFR 523.5(b)(2)(i).			0	1 per footprint index per footprint submission	N(2)	Integer						1	90		Light Duty
FT-44	Breakover Angle Value	Enter the Breakover Angle in degrees (rounded to the nearest degree); ref 49 CFR 523.5(b)(2(iii).			0	1 per footprint index per footprint submission	N(2)	Integer						1	90		Light Duty

														uality 2014
		Enter the Departure Angle in degrees (rounded to the nearest degree); ref 49 CFR			1 per footprint index per footprint									
FT-45	Departure Angle Value	523.5(b)(2)(iii).		0	submission	N(2)	Integer			1	90		Light Duty	
		Enter the Minimum Running Clearance (ground clearance) in centimeters, (rounded to the nearest centimeter); ref 49 CFR 523.5(b)(2)(iv). Do not include the running clearance of flexible plastic tire aero deflectors (located in front of the front			1 per footprint index per									
FT-46	Minimum Running Clearance Value	and/or rear tires which reduce aerodynamic drag and thereby improve fuel economy).		0	footprint submission	N(2)	Integer			1	30		Light Duty	
FT-47	Minimum Front and Rear Axle Clearance Value	Enter the smallest of the Front and Rear Axle Ground Clearance measurement in centimeters (rounded to the nearest centimeter); ref 49 CFR 523.5(b)(2)(v).		0	1 per footprint index per footprint submission	N(2)	Integer			1	30		Light Duty	
FT-48	3 Rows of Designated Seating Positions Indicator	Specify whether the vehicle covered by this footprint has at least three rows of designated seating positions, ref. 49 CFR 523.5(a)(5)(ii).		0	index per footprint submission	A(1)	Enumeration					N = No Y =Yes	Light Duty	

			Collection	Collection	
Process	Notes/Questions	<u>Originator</u>	Point	Туре	Applicable Business Rules
Footprint		Manufacturer	Front End	XML	TBD
					LD-FE-FT-BR003
Certificatio					LD-FE-FT-BR004
Data		Verify	Front end	XML	LD-FE-FT-BR017
					LD-FE-FT-BR002
					LD-FE-FT-BR003
					LD-FE-FT-BR004
					LD-FE-FT-BR006
					LD-FE-FT-BR007
					LD-FE-FT-BR000
	These fields are being cut from FE				LD-FE-FT-BR011
	Label and moved to a new standalone dataset (or added to the				LD-FE-F1-BR012
Footprint	existing carline dataset)	Manufacturer	Front End	XML	LD-FE-FT-BR014
					LD-FE-FT-BR002
					LD-FE-FT-BR006
	These fields are being out from FF				LD-FE-FT-BR007
	Label and moved to a new				LD-FE-FT-BR009
F	standalone dataset (or added to the		EE		LD-FE-FT-BR013
Footprint	existing carline dataset)	Manufacturer	Front End	XML	LD-FE-FT-BR014
					LD-FE-FT-BR002
					LD-FE-FT-BR005
					LD-FE-FT-BR006
	These fields are being cut from FE				LD-FE-FT-BR009
	Label and moved to a new				
Footprint	existing carline dataset)	Manufacturer	Front End	XML	LD-FE-FT-BR013
					LD-FE-FT-BR002
					LD-FE-FT-BR006
	These fields are being out from EE				LD-FE-FT-BR007
	Label and moved to a new				LD-FE-FT-BR009 LD-FE-FT-BR011
	standalone dataset (or added to the				LD-FE-FT-BR013
Footprint	existing carline dataset)	Manufacturer	Front End	XML	LD-FE-FT-BR014
	Label and moved to a new				
	standalone dataset (or added to the				
	existing carline dataset)				
	For web screens, Verify should				
	automatically increment the index				
	footprint, For batch, does the mfr				LD-FE-FT-BR010 LD-FE-FT-BR011
Footprint	need to enter?	Verify	Front End	XML	LD-FE-FT-BR016

Footprint	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufacturer/ Verify	Front End/Back End	XML/Pre- existing	LD-FE-FT-BR001 LD-FE-FT-BR002
Footprint	If the carline class code of the associated carline equals '30' (Small 2WD SUV), this field is required. Otherwise, Verify will override any user input and determine the value based on the carline class code.	Manufacturer/ Verify	Front End	XML/ Assigned	LD-FE-FT-BR018
Footprint	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufacturer/ Verify	Front End/Back End	XML/Pre- existing	LD-FE-FT-BR001 LD-FE-FT-BR002
Footprint	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufacturer/ Verify	Front End/Back End	XML/Pre- existing	LD-FE-FT-BR001 LD-FE-FT-BR002
Footprint	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufacturer/ Verify	Front End/Back End	XML/Pre- existing	LD-FE-FT-BR001 LD-FE-FT-BR002
Footprint	These fields are being cut from FE Label and moved to a new standalone dataset (or added to the existing carline dataset)	Manufacturer/ Verify	Front End/Back End	XML/Pre- existing	
Footprint	Verify should calculate the footprint and display it on the front end using the following equation: Footprint = (((Front Track Width (GL- 106.7) + Rear Track Width (GL- 106.6)) / 144 rounded to one tenth of a square foot using ASTM rounding procedures. The result should then be stored on the back end. Any changes to GL-106.7, GL-106.8, or GL-106.6 should trigger a recalculation of this value.	Verify	Back End	Assigned	
Footprint		Verify	Back End	Assigned	
Footprint		Mfr	Front End	XML	
Footprint	See separate FE calculation tab for the equation as well as the table of required coefficients (Section 533.3, Table V Parameters for the Reformed CAFE FE Targets) by model year. This table should be modifiable by EPA.	Verify	Back End	Assigned	

Footprint	This value is the difference between the EPA footprint target FE value (FT- 14) and the mfr footprint target FE value (FT-13).	Verify	Back End	Assigned	
Footprint		Mfr	Front End	XML	LD-FE-FT-BR015
Footprint	See separate GHG calculation tab.	Verify	Back End	Assigned	
Footprint	This value is the difference between the EPA footprint target GHG value (FT-17) and the mfr footprint target GHG value (FT-16).	Verify	Back End	Assigned	
	Will be entered manually once per model year with updated coefficients per regulation using back-end database	EPA	Back End	Assigned	
		EPA	Back End	Assigned	
		EPA	Back End	Assigned	
		EPA	Back End	Assigned	
		EPA	Back End	Assigned	
		EPA	Back End	Assigned	
		EPA	Back End	Assigned	
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	EPA	Back End	Assigned	
	EPA	Back End	Assigned	
	EPA	Back End	Assigned	
	EPA	Back End	Assigned	
	EPA	Back End	Assigned	
Footprint	 Mfr	Front End	XML	
Footprint	Mfr	Front End	XML	New BR:
				New BR: Cannot enter Code "6" or "7" unless at least 4 of the following 5 conditions are true: a) Approach Angle Value (FT-43) >= 28 degrees; b) Breakover Angle Value (FT-44) >= than 14 degrees; c) Departure AngleValue (FT-45) >= 20 degrees; d) Minimum Running Clearance Value (FT-46) >= 20 centimeters; e) Minimum Front and Rear Axle Clearance Value (FT-47) >= 18 centimeters.
Footprint	Mfr	Front End	XML	
Footprint	Mfr	Front End	XML	New BR: If NHTSA CAFE Vehicle Classification (FT-42) equals '6' or '7' then Approach Angle Value (FT-43) is a required.
Footprint	Mfr	Front End	XML	New BR: If NHTSA CAFE Vehicle Classification (FT-42) equals '6' or '7' then Breakover Angle Value (FT-44) is a required.

Footprint	Mfr	Front End	XML	New BR: If NHTSA CAFE Vehicle Classification (FT-42) equals '6' or '7' then Departure Angle Value (FT-45) is a required.
				New BR:
Footprint	Mfr	Front End	XML	If NHTSA CAFE Vehicle Classification (FT-42) equals '6' or '7' then Minimum Running Clearance Value (FT-46) is a required.
				New BR: If NHTSA CAFE Vehicle Classification (FT-42) equals '6' or '7' then Front Axle
Footprint	Mfr	Front End	XML	Clearance Value (FT-47) is a required.
				New BRs: If NHTSA CAFE Vehicle Classification (FT-42) equals '5' then 3 Rows of
				Jesignated Seating Positions Indicator (FT-48) is a required. If NHTSA CAFE Vehicle Classification (FT-42) equals '6' or '7' then 3 Rows of
Footprint	Mfr	Front End	XML	Designated Seating Positions Indicator (FT-48) cannot be equal to 'N' (No).

EPA Data							Basic	Data Type	Min Lengt			
element number	Long Name	Description	Parent's Name	XML Tag	Required	Multiplicity	Data Type	Description	Length h	Pattern	Total Digits	Fractional Digits
CAFE Informatio	Process Code	Enter the desired Process Code for the current submission	EuelEconomyCAEESubmission/		1	1 per	۸(1)	Enumeration		[4-70-0]		
			FuelEconomyCAFEDetails	InformationProcessCode	1	CAFE/GHG	A(1)	Linumeration		{3}		
CA-0	Manufacturer Code	The three character code assigned by EPA to each manufacturer. This will be derived from users' CDX account.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	EPAManufacturerCode	1	1 per CAFE/GHG	A(3)	String	3 3			
CA-1	Model Year	Enter the applicable Model Year for this CAFE submission.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	ModelYear	1	1 per CAFE/GHG	N(4)	Year	4 4			
CA-4	CAFE/GHG Compliance Category	Enter the applicable CAFE/GHG Compliance Category for this CAFE/GHG submission.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	ComplianceCategoryIdentifier	1	1 per CAFE/GHG	A(3)	Enumeration				
CA-127	GHG Exempt Indicator	For the CAFE/GHG submitter, is your company exempt under 40 CFR 86.1801-12(j) or are the production units between 0 and 4999 over a period of time defined in 40 CFR 86.1801-12(k)?	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	GreenhouseGasExemptionIndicator	0	1 per CAFE/GHG	A(1)	Enumeration				
CA-128	GHG Calculation Method	Enter GHG calculation method, i.e. carbon-related exhaust emissions (CREE) or optional carbon-related exhaust emissions (OPT-CREE). Opt-CREE includes N2) and CH4 in the equation, ref 40 CFR 600.113-12(h) thru (l).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	GreenhouseGasCalculationMethodI dentifier	0	1 per CAFE/GHG	A(5)	Enumeration				
CA-129	OPT-CREE N2O Default Indicator	Yes or no radio button. Business rule: Yes can only be used for 2012-2014 model years.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	N2ODefaultValueUsageIndicator	0	1 per CAFE/GHG	A(1)	Enumeration				

CA-4.5	CAFE/GHG Final Status Indicator	Is this CAFE/GHG submission complete and ready for EPA	FuelEconomyCAFESubmissio	t-Duty DataiRansitatusintericator	0	1 per	A(1)	Enumeration			Office of Transportation a	and Air Quality July 2014
		this indicator is set to "Yes". If necessary, it will still be possible to submits a correction to the CAFE/GHG submission after this indicator has been set to "Yes".				CAPE/GING						
CA-227	Official Manufacturer Contact	The official manufacturer contact for the CAFE dataset.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ FuelEconomyCAFEFinalStatusNotificat onDetails	ManufacturerCAFEContactIDNumb er i	1	1 per CAFE/GHG	A(1)	Enumeration				
CAFE & GHG In	formation: EPA Official Calculated Sales I	nformation										
CA-130	EPA Calculated Official Model Year GHC Production Units	The Verify-calculated final model year GHG production units fo this CAFE/GHG Compliance Category (CA-4).	r FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAGeneratedResultsDetails/ EPAOfficialModelYearProductionVolum eDetails	OfficialModelYearGHGProductionC ount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-131	EPA Calculated Official Model Year GHC TLAAS Production Units	The Verify-calculated final model year GHG TLAAS production units for this CAFE/GHG Compliance Category (CA-4).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAGeneratedResultSDetails/ EPAOfficialModelYearProductionVolum eDetails	OfficialModelYearGHGTLAASProdu ctionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-53	EPA Calculated Official Model Year Truck CAFE Production Units	The Verify-calculated final model year truck CAFE production units. Required for all truck submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAGeneratedResultsDetails/ EPAOfficialModelYearProductionVolum eDetails	OfficialModelYearCAFETruckProdu ctionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-54	EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units	The Verify-calculated final model year domestic passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAGeneratedResultsDetails/ EPAOfficialModelYearProductionVolum eDetails	OfficialModelYearCAFEDomesticPa ssengerVehicleProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-55	EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units	The Verify-calculated final model year import passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	PruelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAGeneratedResultsDetails/ EPAOfficialModelYearProductionVolum eDetails	OfficialModelYearCAFEImportedPa ssengerVehicleProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CAFE & GHG In	formation: Manufacturer Official Calculate	d Sales Information										
CA-132	Manufacturer Calculated Official Model Year GHG Production Units	Enter the manufacturer-calculated final model year GHG production units for this CAFE/GHG Compliance Category (CA 4).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerGreenhouseGasResultsD etails	OfficialModelYearProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-133	Manufacturer Calculated Official Model Year GHG TLAAS Production Units	Enter the manufacturer-calculated final model year GHG TLAAS production units for this CAFE/GHG Compliance Category (CA-4).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTemporaryLeadtimeAllow anceAlternativeStandardResultsDetails	OfficialModelYearProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-50	Manufacturer Calculated Official Model Year Truck CAFE Production Units	Enter the manufacturer-calculated final model year truck CAFE production units. Required for all truck submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTruckResultDetails	OfficialModelYearProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-51	Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units	Enter the manufacturer-calculated final model year domestic passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehic eDetails	OfficialModelYearProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CA-52	Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units	Enter the manufacturer-calculated final model year import passenger vehicle CAFE production units. Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails	OfficialModelYearProductionCount	0	1 per CAFE/GHG compliance category	N(7)	Integer		7	0	
CAFE & GHG In	formation: EPA Baseline Calculation Resu	Its (Does NOT include dual-fuel, alternative fuel incentive c	redits) Note: All CAFE and GHG cal	culations use ASTM-E29 rounding.								

CA-207	EPA Calculated Baseline Domestic Passenger Vehicle CAFE SFITW3000	The Verify-calculated baseline domestic passenger vehicle CAFE base level sales fraction at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA Verify Ligh	t-Duty Data Requir qme nts	0 1 per CAFE/GHG compliance category	N(5,4)	Decimal	5	Office of Jransportation and Air Qua July 20
CA-208	EPA Calculated Baseline Domestic Passenger Vehicle CAFE FEITW3000	The Verify-calculated baseline domestic passenger vehicle CAFE base level fuel economy at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-209	EPA Calculated Baseline Domestic Passenger Vehicle CAFE SFETW4000	The Verify-calculated baseline domestic passenger vehicle CAFE subconfiguration level sales fraction at ETW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(5,4)	Decimal	5	4
CA-210	EPA Calculated Baseline Domestic Passenger Vehicle CAFE FEITW4000	The Verify-calculated baseline domestic passenger vehicle CAFE base level fuel economy at ITW equals 4000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-211	EPA Calculated Baseline Import Passenger Vehicle CAFE SFITW3000	The Verify-calculated baseline import passenger vehicle CAFE base level sales fraction at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(5,4)	Decimal	5	4
CA-212	EPA Calculated Baseline Import Passenger Vehicle CAFE FEITW3000	The Verify-calculated baseline import passenger vehicle CAFE base level fuel economy at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-213	EPA Calculated Baseline Import Passenger Vehicle CAFE SFETW4000	The Verify-calculated baseline import passenger vehicle CAFE subconfiguration level sales fraction at ETW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(5,4)	Decimal	5	4
CA-214	EPA Calculated Baseline Import Passenger Vehicle CAFE FEITW4000	The Verify-calculated baseline import passenger vehicle CAFE base level fuel economy at ITW equals 4000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0 1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CAFE & GHG Info	ormation: Mfr Baseline Calculation Resu	Its (Does NOT include dual-fuel, alternative fuel incentive credits) Note: All CAFE and GHG	calculations use ASTM-E29 roundin	ıg.				

CA-138	Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal	The manufacturer-calculated baseline average GHG gram per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.	FuelEconomyCAFESubmission FuelEconomyCAFEDetails/ ManufacturerGreenhouseGasResultsD etails/BaselineAverageDetails	Duty Data Annui na Badyalue	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	Office of T ransportation and Air Quality July 2014
CA-139	Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal	The manufacturer-calculated baseline average GHG TLAAS gram per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTemporaryLeadtimeAllow anceAlternativeStandardResultsDetails/ BaselineAverageDetails	Unrounded4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-56	Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal	The manufacturer-calculated baseline truck CAFE miles per gallon value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. Required for all truck submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTruckResultDetails/ BaselineTruckDetails	Unrounded4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-57	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The manufacturer-calculated baseline domestic passenger vehicle CAFE miles per gallon value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. The CAFE value is <u>NOT adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ 4FuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehicl eDetails/BaselineVehicleDetails	UnroundedUnadjusted4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-58	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The manufacturer-calculated baseline import passenger vehicle CAFE miles per gallon value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA- 4). The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. The CAFE value is <u>NOT adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails/BaselineVehicleDetails/ UnroundedUnadjusted4Value	UnroundedUnadjusted4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-140	Manufacturer Calculated Baseline Average GHG Rounded Whole Number	The manufacturer-calculated baseline average GHG gram per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerGreenhouseGasResultsD etails/BaselineAverageDetails	RoundedIntegerValue	0	1 per CAFE/GHG compliance category	N(4,0)	Integer	4	0
CA-141	Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number	The manufacturer-calculated baseline average GHG TLAAS gram per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTemporaryLeadtimeAllow anceAlternativeStandardResultsDetails/ BaselineAverageDetails	RoundedIntegerValue	0	1 per CAFE/GHG compliance category	N(4,0)	Integer	4	0
CA-62	Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal	The manufacturer-calculated baseline truck CAFE miles per gallon value that has been rounded to 1 decimal place for this CAFE/GHG Compliance Category (CA-4). The CAFE value does not contain incentive credit allowable for production of dual-fuel, alternate-fueled vehicles. Required for all truck submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTruckResultDetails/ BaselineTruckDetails	Rounded1Value	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal	5	1
CA-64	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	The manufacturer-calculated baseline test procedure adjusted domestic passenger vehicle CAFE value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The CAFE value does not contain the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ dFuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehicl eDetails/BaselineVehicleDetails	UnroundedAdjusted4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4

CA-65	Manufacturer Calculated Baseline	The manufacturer-calculated baseline test procedure adjusted	EuelEconomyCAEESubmissiderify Light	DutviData Reguirements d/Value	0	1 ner	N(8.4)	Decimal		8	Office of Transportati	on and Air Ouality
0,100	Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	import passenger vehicle CAFE value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The CAFE value does not contain the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails/BaselineVehicleDetails			CAFE/GHG compliance category	14(0,+)	Decima		U		July 2014
CA-68	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The manufacturer-calculated baseline test procedure adjusted domestic passenger vehicle CAFE value that has been rounder to 1 decimal place for this CAFE/GHG Compliance Category (CA-4). The CAFE value does not contain the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ dFuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehicl eDetails/BaselineVehicleDetails	RoundedAdjusted1Value	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1	
CA-69	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The manufacturer-calculated baseline test procedure adjusted import passenger vehicle CAFE value that has been rounded to 1 decimal place for this CAFE/GHG Compliance Category (CA- 4). The CAFE value does not contain the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ DFuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails/BaselineVehicleDetails	RoundedAdjusted1Value	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1	
CAFE & GHG In	formation: EPA Final Calculation Results	(includes dual-fuel, alternative fuel incentive credits)	Note: All CAFE and GHG calculations	use ASTM-E29 rounding.								
CA-215	EPA Calculated Final Domestic Passenger Vehicle CAFE SFITW3000	The Verify-calculated final domestic passenger vehicle CAFE base level sales fraction at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenge vehicle submissions.	r NA	NA	0	1 per CAFE/GHG compliance category	N(5,4)	Decimal		5	4	
CA-216	EPA Calculated Final Domestic Passenger Vehicle CAFE FEITW3000	The Verify-calculated final domestic passenger vehicle CAFE base level fuel economy at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenge vehicle submissions.	r	NA	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	
CA-217	EPA Calculated Final Domestic Passenger Vehicle CAFE SFETW4000	The Verify-calculated final domestic passenger vehicle CAFE subconfiguration level sales fraction at ETW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0	1 per CAFE/GHG compliance category	N(5,4)	Decimal		5	4	
CA-218	EPA Calculated Final Domestic Passenger Vehicle CAFE FEITW4000	The Verify-calculated final domestic passenger vehicle CAFE base level fuel economy at ITW equals 4000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenge vehicle submissions.	r	NA	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal		8	4	
CA-219	EPA Calculated Final Import Passenger Vehicle CAFE SFITW3000	The Verify-calculated final import passenger vehicle CAFE base level sales fraction at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenge vehicle submissions.	r	NA	0	1 per CAFE/GHG compliance category	N(5,4)	Decimal		5	4	

CA 220	EDA Calculated Final Import Desconder	The Verify calculated final import passanger vehicle CAFE	NA Verify Light	Duty Data Requirements	0	1 por	NI(9.4)	Docimal	0	Office of Transportation a	nd Air Quality
CA-220	Vehicle CAFE FEITW3000	base level fuel economy at ITW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA CONTEGN	Sac) Saca noquu q iy	U	CAFE/GHG compliance category	N(0,4)	Decima	0		July 2014
CA-221	EPA Calculated Final Import Passenger Vehicle CAFE SFETW4000	The Verify-calculated final import passenger vehicle CAFE subconfiguration level sales fraction at ETW equals 3000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0	1 per CAFE/GHG compliance category	N(5,4)	Decimal	5	4	
CA-222	EPA Calculated Final Import Passenger Vehicle CAFE FEITW4000	The Verify-calculated final import passenger vehicle CAFE base level fuel economy at ITW equals 4000 pounds value that has been rounded to 4 decimal places. This is an intermediate calculation value used in the test procedure adjustment specified in 40 CFR 600.510-08 (e). Required for all passenger vehicle submissions.	NA	NA	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4	
CAFE & GHG	Information: Mfr Final Calculation Results (I	Includes dual-fuel, alternative fuel incentive credits) Note	E: All CAFE and GHG calculations use	ASTM-E29 rounding.	0	1 por	N(0.4)	Desimal	0	4	
CA-146	GHG Unrounded 4 Decimal	value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate-fueled vehicles, but is NOT capped to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).	FuelEconomyCAFEbetails/ FuelEconomyCAFEbetails/ ManufacturerGreenhouseGasResultsD etails/FinalAverageDetails	Unrounded4 value	0	CAFE/GHG compliance category	N(8,4)	Decimai	8	4	
CA-147	Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal	The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to 4 decimal places for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate- fueld vehicles, but is NOT capped to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTemporaryLeadtimeAllow anceAlternativeStandardResultsDetails/ FinalAverageDetails	Unrounded4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4	
CA-72	Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal	The manufacturer-calculated final truck CAFE miles per gallon value that has been rounded to 4 decimal places. The CAFE value contains the incentive credit for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(h)). Required for all truck submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTruckResultDetails/ FinalTruckDetails	Unrounded4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4	
CA-73	Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The manufacturer-calculated final domestic passenger vehicle CAFE miles per gallon value that has been rounded to 4 decimal places. The CAFE value contains the incentive credit for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(h)). The CAFE value is <u>NOT adjusted</u> for the test procedure adjustment specified in 40 CFR 600.510-08(e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehicl eDetails/FinalVehicleDetails	UnroundedUnadjusted4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4	
CA-74	Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	The manufacturer-calculated final import passenger vehicle CAFE miles per gallon value that has been rounded to 4 decimal places. The CAFE value contains the incentive credit for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(h)). The CAFE value is <u>NOT adjusted</u> for the test procedure adjustment specified in 40 CFR 600.510-08(e). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails/FinalVehicleDetails	UnroundedUnadjusted4Value	0	1 per CAFE/GHG compliance category	N(8.4)	Decimal	8	4	

CA-148	Manufacturer Calculated Final Average GHG Rounded Whole Number	The manufacturer-calculated final average GHG grams per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).	FuelEconomyCAFESubmissid/fgrify Light-D FuelEconomyCAFEDetails/ ManufacturerGreenhouseGasResultsD etails/FinalAverageDetails	uty DateBnatediantegiarValue	0	1 per CAFE/GHG compliance category	N(4,0)	Integer	4	Office of gransportation and Air Qua July 2
CA-149	Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number	The manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate- fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTemporaryLeadtimeAllow anceAlternativeStandardResultsDetails/ FinalAverageDetails	RoundedIntegerValue	0	1 per CAFE/GHG compliance category	N(4,0)	Integer	4	0
CA-150	Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal	The manufacturer-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value contains the incentive credit for dual-fuel, alternate-fueled vehicles, but is <u>NOT capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(h)). Required for all truck submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerTruckResultDetails/ FinalTruckDetails	Rounded1Value	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal	5	1
CA-80	Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal	The manufacturer-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 4 decimal places. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehicl eDetails/FinalVehicleDetails	UnroundedAdjusted4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-81	Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal	The manufacturer-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 4 decimal places. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model year (40 CFR 600.510- 12(h)). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails/FinalVehicleDetails	UnroundedAdjusted4Value	0	1 per CAFE/GHG compliance category	N(8,4)	Decimal	8	4
CA-84	Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The manufacturer-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerDomesticPassengerVehicl eDetails/FinalVehicleDetails	RoundedAdjusted1Value	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal	5	1
CA-85	Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	The manufacturer-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>NOT capped</u> to the maximum allowed credit for the model year (40 CFR 600.510- 12(h)). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails/FinalVehicleDetails	RoundedAdjusted1Value	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal	5	1
CAFE & GHG Info CA-151	mation: EPA's Official Calculation Resu EPA Official Average GHG Grams Per	Its (includes "capped" alternative-fuel, dual-fuel credits) The official Verify-calculated final average GHG grams per mile	Note: All CAFE and GHG calculations	use ASTM-E29 rounding. fficialGHGAverageGramsPerMileN	0	1 per	N(4,0)	Integer	4	0
	IMILE	Value triat has been founded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate-fueled vehicles. The average GHG value is <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(i)).	FuenconomyCAFEDetails/ EPAGeneratedResultsDetails/ EPAOfficialCalculationResultsDetails	umber		compliance category				

CA-152	EPA Official Average GHG TLAAS Grams Per Mile	The official Verify-calculated final average GHG TLAAS grams per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate- fueled vehicles. The average GHG value is <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510- 12(j)).	Light Drive Arch Romer Service Action Romer Service Action Service	0	1 per CAFE/GHG compliance category	N(4,0)	Integer		4	Office of Transportation and Air Quality July 2014
CA-91	EPA Official Truck CAFE Miles Per Gallon	The official Verify-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value contains the incentive credit for dual-fuel, alternate-fueled vehicles. The CAFE value is <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510-12(h)). Required for all truck submissions.	OfficialCAFETruckMilesPerGallonVa lue	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1
CA-92	EPA Official Domestic Passenger Vehicle CAFE Miles Per Gallon	The official Verify-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>capped</u> to the maximum allowed credit for the model year (40 CFR 600.510- 12(h)). Required for all passenger vehicle submissions.	OfficialCAFEDomesticPassengerVe hicleMilesPerGallonValue	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1
CA-93	EPA Official Import Passenger Vehicle CAFE Miles Per Gallon	The official Verify-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>capped</u> to the maximum allowed credit for the model year (40 CFR 600.510- 12(h)). Required for all passenger vehicle submissions.	OfficialCAFEImportedPassengerVe hicleMilesPerGallonValue	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1
CAFE & GHG In	formation: Mfr's Official Calculation Resu	Its (includes "capped" alternative-fuel, dual-fuel credits) Note: All CAFE and GHG calculation	ns use ASTM-E29 rounding.							
CA-153	Manufacturer Calculated Official Average GHG Grams Per Mile	The official manufacturer-calculated final average GHG grams per mile value that has been rounded to a whole number for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate- fueled vehicles. The average GHG value is <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510- 12(i)).	OfficialAverageGramsPerMileNumb er	0	1 per CAFE/GHG compliance category	N(4,0)	Integer		4	0
CA-154	Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile	The official manufacturer-calculated final average GHG TLAAS grams per mile value that has been rounded to a whole number FuelEconomyCAFEDetails/ for this CAFE/GHG Compliance Category (CA-4). The average GHG value contains the incentive credit for dual-fuel, alternate- fueled vehicles. The average GHG value is <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510- 12(i)).	OfficialAverageGramsPerMileNumb er tails	0	1 per CAFE/GHG compliance category	N(4,0)	Integer		4	0
CA-88	Manufacturer Calculated Official Truck CAFE Miles Per Gallon	The official manufacturer-calculated final truck CAFE miles per gallon value that has been rounded to 1 decimal place. The CAFE value contains the incentive credit for dual-fuel, alternate-fueled vehicles. The CAFE value is <u>capped</u> to the maximum credit allowed for the model year (40 CFR 600.510- 12(h)). Required for all truck submissions.	OfficialMPGValue	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1
CA-89	Manufacturer Calculated Official Domestic Passenger Vehicle CAFE Mile Per Gallon	The official manufacturer-calculated final domestic passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>capped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passenger vehicle	OfficialMPGValue	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	1

CA-90	Manufacturer Calculated Official Import Passenger Vehicle CAFE Miles Per Gallon	The official manufacturer-calculated final import passenger vehicle test procedure adjusted CAFE value that has been rounded to 1 decimal place. The CAFE value contains the credit for production of dual-fuel, alternate-fuel vehicles. The CAFE value is <u>adjusted</u> by the test procedure adjustment specified in 40 CFR 600.510-08 (e). The CAFE value is <u>capped</u> to the maximum allowed credit for the model year (40 CFR 600.510-12(h)). Required for all passenger vehicle submissions.	FuelEconomyCAFESubmissidf ^{grify Ligh} FuelEconomyCAFEDetails/ ManufacturerImportedPassengerVehicl eDetails	t-Duty Data®nnviannnectyalue	0	1 per CAFE/GHG compliance category	N(5,1)	Decimal		5	Office of <u>Transport</u>	tion and Air Qualit July 201
	Applicable CAFE Standard for Each CA	FE Compliance Category				(Including p	arameter	s needed to generate Lig	nt-Duty Truck r	eformed CAFE s	tandards for an indi	vi
CA-10	CAFE Standard Type Indicator	Enter the applicable CAFE standard type for this CAFE Compliance Category.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails	StandardTypeIndicator	0	1 per CAFE	A(1)	Enumeration				
	Reformed CAFE Standard Calculation							CA-14 through CA	-23 required if	CAFE Type India	ator (CA-10) = 'R', e	Is
CA-11.5	Carline Manufacturer Code	The carline manufacturer code derived from the FE Label information referenced by the combination of Model Year (CA- 1), Mfr Code (CA-0), and Model Type Index (CA-14).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	EPAManufacturerCode	0	1n (1 for each Model Type for this CAFE.)	A(3)	String 3	3			
CA-12	Division Code	The division code derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14).	FuelEconomyCAFESubmission/ eFuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	ManufacturerDivisionCode	0	1n (1 for each Model Type for this CAFE.)	N(2)	Integer				
CA-13	Carline Code	The carline code derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	CarlineCode	0	1n (1 for each Model Type for this CAFE.)	N(3)	Integer				_
CA-14.1	Test Group	The test group derived from the FE Label information referenced by the combination of Model Year (CA-1), Mfr Code (CA-0), and Model Type Index (CA-14).	NA	NA	0	1n (1 for each Model Type for this CAFE.)	A(12)	Fixed String 12	12			
CA-14.2	Transmission Class Index	The transmission class index derived from the FE Label information referenced by the combination of Model Year (CA- 1), Mfr Code (CA-0), and Model Type Index (CA-14).	NA	NA	0	1n (1 for each Model Type for this CAFE.)	N(3)	Integer				
CA-155	CAFE Domestic/Import Indicator	Enter the applicable domestic or import indicator for this Model Type Index. This is required for passenger vehicle CAFE calculations.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails	DomesticImportIndicator	0	1n (1 for each Model Type for this CAFE.)	A(1)	Enumeration				
CA-156	GHG TLAAS Indicator	Is this Model Type Index to be included in GHG TLAAS calculations?	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails	TemporaryLeadtimeAllowanceAltern ativeStandardIndicator	0	1n (1 for each Model Type for this CAFE/GHG.)	A(1)	Enumeration				
CA-157	GHG Advanced Technology Indicator	Is this Model Type Index a fuel cell vehicle, EV or PHEV ?	NA	NA		0 1n (1 for each Model Type for this CAFE/GHG.)	A(1)	Enumeration				

CA-14.5	Footprint Index	Verify-generated Enter the applicable footprint index.	FuelEconomyCAFESubmissio/fgrify Li FuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	isht Polokopata Reexinemende	0	1n (1 for each footprint per Model Type)	2) Integer			2	Office of Transportati	on and Air Quality July 2014
CA-15	Model Type Footprint Description	Enter the manufacturer's model type and footprint description (e.g. "super cab, 4WD, long bed, Dooley"; "super cab, 2WD, short bed", etc.) . Repeat for each footprint within this model type index.	NA	NA	0	1n (1 for each footprint within each Model Type for this CAFE.) A(3	00) string	1	300			
CA-194	Footprint Final Model Year GHG TLAAS Production Units	Enter the final model year greenhouse gas TLAAS production units of this footprint for this model type.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	FinalModelYearGreenhouseGasTe mporaryLeadTimeAllowanceAlternat iveStandardProductionNumber	0	1n (1 for each footprint within each Model Type for this CAFE/GHG.)	7) Integer			7	0	
CA-158	Footprint Final Model Year GHG Production Units	Enter the final model year greenhouse gas production units of this footprint for this model type.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	FinalModelYearGreenhouseGasPro ductionNumber	0	1n (1 for each footprint within each Model Type for this CAFE/GHG.) N(7) Integer			7	0	
CA-20	Footprint Final Model Year CAFE Production Units	Enter the final model year fuel economy production units of this footprint for this model type.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails/ FootprintInformationDetails	FinalModelYearProductionNumber	0	1n (1 for each footprint within each Model Type for this CAFE.) N(7) Integer			7	0	
CA-16	Wheel base (inches)	Enter the wheel base of this footprint for this model type measured in inches and rounded to one tenth of an inch.	NA	NA	0	1n (1 for each footprint within each Model Type for this CAFE.)	i,1) Decima			5	1	
CA-17	Front Track Width (inches)	Enter the front track width of this footprint for this model type measured in inches and rounded to one tenth of an inch.	NA NA	NA	0	1n (1 for each footprint within each Model Type for this CAFE.)	,1) Decima			4	1	
CA-18	Rear Track Width (inches)	Enter the rear track width of this footprint for this model type measured in inches and rounded to one tenth of an inch.	NA	NA	0	1n (1 for each footprint within each Model Type for this CAFE.)	i,1) Decima			4	1	

CA-19	Footprint (square feet)	The Verify-calculated area of this footprint for this model type according to the footprint definition specified in 49 CFR 523.2.	NA Verify Ligh	tt-Duty Data Requir qq ents	0	1n (1 for each footprint within each Model Type for this CAFE.)	N(4,1)	Decimal	4	Office of <u>T</u> ransportation and Air Quality July 2014
CA-159	EPA Calculated Footprint Target GHG Value (grams per mile)	Enter the EPA-calculated target greenhouse gas value (in grams per mile) of this footprint for this model type. The EPA-calculated value will be the official value used to calculate the GHG standard for this compliance category.	NA	NA	0	1n (1 for each footprint within each Model Type for this CAFE/GHG.)	N(5,2)	Decimal	5	2
CA-21.5	EPA Calculated Footprint Target FE Value (miles per gallon)	The EPA-calculated target fuel economy value (in miles per gallon) of this footprint for this model type. This will be the official value used to calculate the CAFE standard for this compliance category.	NA	NA	0	1n (1 for each footprint within each Model Type for this CAFE.)	N(5.2)	Decimal	5	2
CA-160	Manufacturer Calculated Unrounded GHG Standard	Enter the manufacturer calculated unrounded GHG standard for this compliance category.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails	ManufacturerUnroundedGreenhous eGasStandardValue	0	1 per CAFE	N(5,1)	Decimal	5	1
CA-161	EPA Calculated Unrounded GHG Standard	The EPA calculated unrounded GHG standard for this compliance category.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ GHGReformedStandardDetails/ EPAGHGReformedStandardDetails	CalculatedUnroundedReformedGH GStandardValue	0	1 per CAFE	N(5,1)	Decimal	5	1
CA-162	EPA Calculated Unrounded GHG Standard Discrepancy Value	The EPA-calculated discrepancy between the manufacturer and EPA calculated GHG standards.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ GHGReformedStandardDetails/ EPAGHGReformedStandardDetails	CalculatedUnroundedReformedGH GDiscrepancyValue	0	1 per CAFE	N(5,1)	Decimal	5	1
CA-163	EPA Calculated Final GHG Standard	The EPA calculated final GHG standard for this compliance category that has been rounded to a whole number.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes uitsDetails/ GHGReformedStandardDetails/ EPAGHGReformedStandardDetails	CalculatedFinalReformedGHGStand ardNumber	0	1 per CAFE	N(4,0)	Integer	4	0

CA-195	Manufacturer Calculated Unrounded GHG TLAAS Standard	Enter the manufacturer calculated unrounded GHG standard for this compliance category.	FuelEconomyCAFESubmissid/grify Lig FuelEconomyCAFEDetails/ ReformedStandardDetails	ht Math Mate Berly in worker dGreenhous eGas Temporary Lead Time Allowanc eAlternative Standard Value	0	1 per CAFE	N(5,1)	Decimal			5	Office of Iransportation	and Air Quality July 2014
CA-196	EPA Calculated Unrounded GHG TLAAS Standard	The EPA calculated unrounded GHG standard for this compliance category.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ GHGTLAASReformedStandardDetails EPAGHGReformedStandardDetails	CalculatedUnroundedReformedGH GStandardValue	0	1 per CAFE	N(5,1)	Decimal			5	1	
CA-197	EPA Calculated Unrounded GHG TLAAS Standard Discrepancy Value	The EPA-calculated discrepancy between the manufacturer and EPA calculated GHG standards.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ GHGTLAASReformedStandardDetails EPAGHGReformedStandardDetails	CalculatedUnroundedReformedGH GDiscrepancyValue	0	1 per CAFE	N(5,1)	Decimal			5	1	
CA-198	EPA Calculated Final GHG TLAAS Standard	The EPA calculated final GHG standard for this compliance category that has been rounded to a whole number.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ GHGTLAASReformedStandardDetails EPAGHGReformedStandardDetails	CalculatedFinalReformedGHGStand ardNumber	0	1 per CAFE	N(4,0)	Integer			4	0	
CA-164	Manufacturer GHG Comments	Enter any comments for this GHG.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails	ManufacturerGreenhouseGasComm entsText	0	1 per CAFE	A(1000)	string	1	1000			
CA-22.3	Manufacturer Calculated Unrounded Reformed Truck CAFE Standard	Enter the manufacturer calculated unrounded reformed Truck CAFE standard.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails	ManufacturerUnroundedReformedTr uckCAFEStandardValue	0	1 per CAFE	N(7,4)	Decimal			7	4	
CA-22	EPA Calculated Unrounded Reformed Truck CAFE Standard	The EPA calculated unrounded reformed Truck CAFE standard for this compliance category.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ TruckReformedStandardDetails/ EPACAFEReformedStandardDetails	CalculatedUnroundedReformedCAF EStandardValue	0	1 per CAFE	N(7,4)	Decimal			7	4	
CA-22.5	EPA Calculated Unrounded Reformed Truck CAFE Standard Discrepancy Value	The EPA-calculated discrepancy between the manufacturer and EPA calculated reformed Truck CAFE standards.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ TruckReformedStandardDetails/ EPACAFEReformedStandardDetails	CalculatedUnroundedReformedCAF EDiscrepancyValue s	0	1 per CAFE	N(7,4)	Decimal			7	4	
CA-22.7	EPA Calculated Final Reformed Truck CAFE Standard	The EPA calculated final reformed Truck CAFE standard that has been rounded to one decimal place.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ TruckReformedStandardDetails/ EPACAFEReformedStandardDetails	CalculatedFinalReformedCAFEStan dardValue	0	1 per CAFE	N(4,1)	Decimal			4	1	
CA-23	Manufacturer Reformed CAFE Comments	Enter any comments for this reformed CAFE.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails	ManufacturerReformedCommentsT ext	0	1 per CAFE	A(1000)	string	1	1000			
CA-199	Manufacturer Calculated Unrounded Reformed Domestic Passenger Vehicle CAFE Standard	Enter the manufacturer calculated unrounded reformed domestic passenger vehicle CAFE standard.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ReformedStandardDetails	ManufacturerUnroundedReformedD omesticPassengerVehicleCAFEStan dardValue	0	1 per CAFE	N(7,4)	Decimal			7	4	

CA-200	EPA Calculated Unrounded Reformed Domestic Passenger Vehicle CAFE	The EPA calculated unrounded reformed domestic passenger vehicle CAFE standard.	FuelEconomyCAFESubmissid/grify Ligh FuelEconomyCAFEDetails/	^t ยิ่มไซเมิลtedอกพี่เอกหย่งกายปัReformedCAF EStandardValue	0	1 per CAFE	N(7,4)	Decimal	7	Office of Transportation and Air Quality July 2014
	Stanoaro		EPAReformed standard Calculation Res ultsDetails/ DomesticPassengerVehicleReformedSt andardDetails/ EPACAFEReformedStandardDetails	t						
CA-201	EPA Calculated Unrounded Reformed	The EPA-calculated discrepancy between the manufacturer	FuelEconomyCAFESubmission/	CalculatedUnroundedReformedCAF	0	1 per	N(7,4)	Decimal	7	4
	Standard Discrepancy Value	CAFE standards.	EPAReformedStandardCalculationRes ultsDetails/ DomesticPassengerVehicleReformedSt andardDetails/ EPACAFEReformedStandardDetails	t						
CA-202	EPA Calculated Final Reformed Domestic Passenger Vehicle CAFE Standard	The EPA calculated final reformed domestic passenger vehicle CAFE standard that has been rounded to one decimal place.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ DomesticPassengerVehicleReformedSt andardDetails/ EPACAFEReformedStandardDetails	CalculatedFinalReformedCAFEStan dardValue	0	1 per CAFE	N(4,1)	Decimal	4	1
CA-203	Manufacturer Calculated Unrounded	Enter the manufacturer calculated unrounded reformed import	FuelEconomyCAFESubmission/	ManufacturerUnroundedReformedI	0	1 per	N(7,4)	Decimal	7	4
	Reformed Import Passenger Vehicle CAFE Standard	passenger vehicle CAFE standard.	FuelEconomyCAFEDetails/ EPAGeneratedFuelEconomyCAFEDeta ils/EPAReformedStandardDetails	mportPassengerVehicleCAFEStand a ardValue		CAFE				
CA-204	EPA Calculated Unrounded Reformed Import Passenger Vehicle CAFE Standard	The EPA calculated unrounded reformed import passenger vehicle CAFE standard.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ ImportedPassengerVehicleReformedSt andardDetails/ EPACAFEReformedStandardDetails	CalculatedUnroundedReformedCAF EStandardValue	0	1 per CAFE	N(7,4)	Decimal	7	4
CA-205	EPA Calculated Unrounded Reformed Import Passenger Vehicle CAFE Standard Discrepancy Value	The EPA-calculated discrepancy between the manufacturer and EPA calculated reformed import passenger vehicle CAFE standards.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ ImportedPassengerVehicleReformedSt andardDetails/ EPACAFEReformedStandardDetails	CalculatedUnroundedReformedCAF EDiscrepancyValue	0	1 per CAFE	N(7,4)	Decimal	7	4
CA-206	EPA Calculated Final Reformed Import Passenger Vehicle CAFE Standard	The EPA calculated final reformed import passenger vehicle CAFE standard that has been rounded to one decimal place.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAReformedStandardCalculationRes ultsDetails/ ImportedPassengerVehicleReformedSt andardDetails/ EPACAFEReformedStandardDetails	CalculatedFinalReformedCAFEStan dardValue	0	1 per CAFE	N(4,1)	Decimal	4	1
CA-223	EPA CAFE/GHG Final Indicator	EPA CAFE/GHG Final Indicator	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ EPAGeneratedResultsDetails	EPAFinalStatusIndicator	0	1 per CAFE	A(1)	Enumeration		
CA-224	EPA CAFE/GHG Calculation Complete Indicator	EPA CAFE/GHG Calculation Complete Indicator	NA	NA	0	1 per CAFE	A(1)	Enumeration		

CA-225	EPA CAFE/GHG Calculation Failure Reason	EPA CAFE/GHG Calculation Failure Reason	NA Verify Ligh	t-Duty Data Requirements	0	1 per CAFE	A(1000)	Fixed String	string 1	1000	0	ffice of Transportati	on and Air Qu July 2
	CAFE Calculation Information (Model Ty	the Information a unique combination of Carl ine. Basic Fu	gine and Transmission Class (Note-	all of the Model Type description i	info submitted in FF	l abel will be	used for	CAFE, even tho	unh it is not sh	own here y	with the CAFF data	requirements))	i i
CA-25.1	Carline Manufacturer Code	Enter the applicable Carline Manufacturer Code for this Model Type Index.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails	EPAManufacturerCode	1	1n (1 for each Model Type for this CAFE.)	A(3)	Fixed String				ioquirementojj	
CA-25	Model Type Index	Enter the applicable model type index (previously created in FE Label) for this CAFE compliance category. All model type indices created in FE Label for a manufacturer and model year must be used in one of the CAFE compliance categories for that same manufacturer and model year, except for police/emergency model types.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails	ModelTypeIndexNumber	1	1 n (1 for each Model Type for this CAFE.)	N(3)	Enumeration					
Verify-Calcula	ated Model Type Level Fields (Intermediate Ca	culations)											1
CA-226	EPA CAFE/GHG Model Type Calculation Complete Indicator	EPA CAFE/GHG Model Type Calculation Complete Indicator	NA	NA	0	1 per Model type Index	A(1)	Enumeration					l
CA-226.5	EPA CAFE/GHG Model Type Calculation Failure Reason	EPA CAFE/GHG Model Type Calculation Failure Reason	NA	NA	0	1 per Model type Index	A(1000)	Fixed String	string 1	1000			
CA-229	EPA Calculated Model Type AMFA City FE Value 4 decimal	Verify calculated AMFA (Alternative Motor Fuels Act) City FE value	NA	NA	0	1 per Model type Index	N(7,4)	Decimal			7	4	
CA-230	EPA Calculated Model Type AMFA Highway FE Value 4 decimal	Verify calculated AMFA (Alternative Motor Fuels Act) Highway FE value	NA	NA	0	1 per Model type Index	N(7,4)	Decimal			7	4	
CA-231	EPA Calculated Model Type AMFA Combined FE Value 4 decimal	Verify calculated AMFA (Alternative Motor Fuels Act) Combined FE value	NA	NA	0	1 per Model type Index	N(7,4)	Decimal			7	4	
CA-232	EPA Calculated Model Type City GHG Value 1 decimal	Verify calculated City GHG value	NA	NA	0	1 per Model type Index	N(5,1)	Decimal			5	1	
CA-233	EPA Calculated Model Type Highway GHG Value 1 decimal	Verify calculated Highway GHG value	NA	NA	0	1 per Model type Index	N(5,1)	Decimal			5	1	
CA-234	EPA Calculated Model Type Combined GHG Value 1 decimal	Verify calculated Combined GHG value	NA	NA	0	1 per Model type Index	N(5,1)	Decimal			5	1	
CA-235	EPA Calculated Model Type CAFE Production Volume	Verify calculated value	NA	NA	0	1 per Model type Index	N(7)	Integer			7	0	l
CA-236	EPA Calculated Model Type GHG Production Volume	Verify calculated value	NA	NA	0	1 per Model type Index	N(7)	Integer			7	0	4
CA-237	EPA Calculated Model Type CAFE Test Volume	Verify calculated value	NA	NA	0	1 per Model type Index	N(7)	Integer			7	0	I
	Additional CAFE Base Level Info not incl	uded in Model Type Indexes (CA-25) (Multiple Base Levels r	nay exist within a Model Type) E	ase Level is defined as a "unique o	combination of Basi	c Engine, Tran	smissior	Class and Inert	ia Weight Clas	s".(ref: 40	CFR 600.002)	(For IT:	
CA-25.5	Base Level Index	Assigned by Verify for each base level (i.e. inertia weight class) created by the manufacturer.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModeITypeDetails/BaseLevelDetails	BaseLevelIndexNumber	1	1 n (1 for each base level within a Model Type for this CAFE.)	N(2)	Integer					

CA-25.6	Inertia Weight Class	Inertia Weight Class (ref: 40 CFR 600.002-08): means the class, which is a group of test weights, into which a vehicle is grouped based on is loaded vehicle weight in accordance with the provisions of 40 CFR 86.	FuelEconomyCAFESubmissid/fprify Lig FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails	ht-Dutyi Aeta&weigntchats sNumber	1	1 n (1 for each base level within a Model Type for this CAFE.)	N(5)	Integer				Office of Transportation and Air Qualit July 201
	Configuration Info (Multiple Configura	tions may exist within a Base Level) - unique combination of I	Engine Code, Axle Ratio and Transmi	ssion Configuration within a Base	Level							
CA-26	Configuration Index	 Enter the new configuration index number assigned by the manufacturer that has not already been entered in FE Label to identify each configuration within a Base Level that contains a unique combination of Engine Code, Axle Ratio and Transmission Configuration. Manufacturers should assign the code as specified below: 001-499: A portion of this configuration is represented by a test vehicle. 501-999: No portion of this configuration is represented by a test vehicle. (Formerly "DVC" (Data vehicle code) in CFEIS.) 	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModeITypeDetails/BaseLevelDetails/ ConfigurationDetails	ConfigurationIndexNumber	1	1n (1 for each Configuratio n within each Base Level within a Model Type)	N(3)	Integer			3	0
CA-27	Transmission Configuration Code	 Enter the Transmission Configuration Code assigned by the manufacturer for this Configuration. 1. The Transmission Configuration Code is used to distinguish a unique transmission configuration within a Transmission Class. Manufacturers may assign the code alphanumerically up to two characters (e.g. '1', 'A', '02', 'A2', '3B', etc.). 2. For a definition of Transmission Configuration, see 40 CFR 600.002-08 and A/C 83A. 3. This data element replaces all of the CFEIS "FR" and "FL" data elements and is functionally equivalent to the CFEIS "Transmission Configuration Link" data element. 	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails	TransmissionConfigurationCode	1	1n (1 for each Configuratio n within each Base Level within a Model Type)	A(2)	String	1 2	[A-Z0-9] {1,2}		
CA-28	Engine Code	Enter the Engine Code for this Configuration which is used to distinguish a unique combination of displacement, fuel delivery system, calibration, emission control, within a Engine system combination (ref: 40 CFR 600.002-08).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails	EngineCodeText	1	1n (1 for each Configuratio n within each Base Level within a Model Type)	A(14)	String	1 14			
CA-29	Axle Ratio	Enter the axle ratio for this Configuration.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails	AxleRatioValue	1	1n (1 for each Configuratio n within each Base Level within a Model Type)	N(3,2)	Decimal			3	2
							_					+
	Subconfiguration Info (Multiple Subco	onfigurations may exist within a Configuration Level) - unique	compination of ETW and RLHP withir	a configuration Level								

CA-29.5	Subconfiguration Index	Enter the index number assigned by the manufacturer to identify this subconfiguration that has not already been entered in FE Label within a configuration. Subconfiguration Index is used to identify each subconfiguration within a configuration that contains a unique combination of equivalent test weight and road load horse power. Manufacturers should assign this code as specified below: 01-49: for a subconfiguration represented by a test vehicle. 51-99: for a subconfiguration not represented by a test vehicle. (Formerly "RLC" (Road Load Code) in CFEIS.)	FuelEconomyCAFESubmissid/grify Ligh FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails	t ^{-Du} SUBetannguiteronnfelexNumber	1	1n (1 for each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(2) Integer		2	Office of Transportation and Air Quality July 2014
CA-30	Total Road Load Horsepower	Enter the total road load horsepower at 50 mph (TRLHP50).	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails	RoadLoadHorsepowerValue	1	1n (1 for each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(3,1) Decimal		3	1
CA-31	Equivalent Test Weight (ETW)	Enter the Equivalent Test Weight (ETW) within a specified Inertia Weight Class.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails	EquivalentTestWeightValue	1	1n (1 for each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(5) Enumerati	n		
CA-228	N/V Ratio	Enter the applicable N/V ratio for this test vehicle configuration	. FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModeITypeDetails/AsseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails	NVRatioValue	0	1n (1 for each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(4,1) Decimal		4	1
Subconfigura	tion production units information - Withi	n a subconfiguration, manufacturers must report production uni	ts for each combination of Carline (Mi	frCode, DivCode, CarlineCode) and	i testgroup.					

CA-124	Carline Manufacturer Code	Enter the applicable manufacturer code for this subconfiguration sales information.	FuelEconomyCAFESubmissid/frifyLig FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ SubConfigurationSalesDetails	ht-Duty D בים אַגאווויאזאפווויגיואפוווי רCode	1 (1 for each Subconfigur ation production units row within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(3)	String	3	3	[A-ZO-9] {3}	Office of Transportati	on and Air Quality July 2014
CA-125	Division Code	Enter the applicable manufacturer code for this subconfiguration sales information.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ SubConfigurationSalesDetails	ManufacturerDivisionCode	1 (1 for each Subconfigur ation production units row within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(2)	Integer	1	2			
CA-126	Carline Code	Enter the applicable manufacturer code for this subconfiguration sales information.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ SubConfigurationSalesDetails	CarlineCode	1 (1 for each Subconfigur ation production units row within each Subconfigur ation within each Configuratio n within each Base Level within each Base Level within each Model Type)	N(3)	Integer	1	3			
CA-34	Test Group	Enter the applicable test group name for this subconfiguration.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ SubConfigurationSalesDetails	TestGroupName	1 (1 for each Subconfigur ation production units row within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(12)	String	12		[A-HJ- NPR-TV- Y1-9](1) [A-Z0-9] [4,11]([N-] [4,20-9] [1,6])?		

CA-193	Manufacturer Subconfiguration Final Model Year GHG Production Units	Enter the manufacturer-calculated final model year fuel economy production units for this carline and testgroup. This will be used in the GHG calculations.	FuelEconomyCAFESubmissid/figrify Ligh FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ SubConfigurationDetails/ SubConfigurationSalesDetails	t <mark>9ubC∂r#nftRationPinatim</mark> odelYearGr eenhouseGasProductionNumber	0	(1 for each Subconfigur ation production units row within each Subconfigur ation within each asse Level within each Base Level within each Model Type)	N(6)	Integer				Office of Transportation	1 and Air Quality July 2014
CA-32	Manufacturer Subconfiguration Final Model Year FE Production Units	Enter the manufacturer-calculated final model year fuel economy production units for this carline and testgroup. This will be used in the CAFE calculations.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/AsseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ SubConfigurationSalesDetails	SubConfigurationFinalModelYearPr oductionNumber	1	(1 for each Subconfigur ation production units row within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(6)	Integer					
Test Vehicle Info	(Multiple vehicles with multiple tests ma	ay exist within a sub-configuration)											
CA-35	Test Number	Enter an applicable Test Number for this CAFE that was previously assigned by Verify in Test Information. Test Numbe must be entered when Subconfiguration Index (CA-29) is 1 to 49 and Configuration Index (CA-26) is 1 to 499 which indicates that the subconfiguration is represented by a tested vehicle.	FuelEconomyCAFESubmission/ er FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ : ConfigurationDetails/ SubConfigurationDetails/ TestVehicleDetails	TestNumberIdentifier	0	1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(12)	String					
CA-36	Vehicle ID	A unique alphanumeric identifier assigned by the manufacturer to each test vehicle	NA	NA	0	1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(20)	String	1	20			

CA-37	Vehicle Configuration Number	A number previously assigned to specify a unique test vehicle	NA Verify Light	Duty Data Requirements	0 1 n (1 for	N(2)	Integer			Office of Transportati	on and Air Quality
		configuration.			each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)						July 2014
CA-38	Analytically-Derived FE/CREE Indicator	The fuel economy values for this vehicle that represent a sub- configuration were generated by an EPA-approved analytically- derived method, in lieu of testing (ref: 40 CFR 600.006(e) and CCD-04-06). The number of ADFE must be no more than 20% of the subconfigurations tested in CAFE (ref: CD-04-06).	NA	NA	0 1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(1)	Enumeration				
CA-39	Data Substitution Indicator	Enter the applicable Data Substitution Indicator for this test.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ TestVehicleDetails	DataSubstitutionIndicator	0 1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(1)	Enumeration				
CA-40	Averaging Method	Enter the Averaging Method to be used if this Test Number is part of an averaging group (i.e. subconfiguration equipped with a multi-mode transmission or Shift Indicator Light), where: N = No averaging S = Simple averaging (Sum(i=1 to n) (FET(i) * WT(i))) H = Harmonic averaging (1/(Sum(i=1 to n) (FET(i) / WT(i))) Note: WT(i) = Averaging Weighting Factor (GL-135) of the MPG value, specified by the manufacturer based on EPA's Guidance (ref: CCD-01-25R, CD-87-01 and A/C 83A); and, FET(i) = MPG of test.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ TestVehicleDetails	AveragingMethodIdentifier	0 1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(1)	Enumeration				
CA-41	Averaging Group Indicator	Enter the Averaging Group Indicator assigned by the manufacturer that will be used to identify all the tests (of the same test procedure) that need to be averaged together.	FuelEconomyCAFESubmission/ FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ TestVehicleDetails	AveragingGroupIndicator	0 1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	A(1)	String	1	1 [A-Z0-9]		

CA-42	Averaging Weighting Factor	Enter the averaging weighting factor for this vehicle mpg if equipped with either Shift Indicator Light (SIL) or multi-mode transmission. (Formerly 'Test Group Weighting' in CFEIS).	FuelEconomyCAFESubmissio/f9rifyLight-DutvDatgingoweingmange FuelEconomyCAFEDetails/ ModelTypeDetails/BaseLevelDetails/ ConfigurationDetails/ SubConfigurationDetails/ TestVehicleDetails	actorValue 0 1n (1 for each Test within each Subconfigur ation within each Configuratio n within each Base Level within each Model Type)	N(3,2) Decimal	3	Office of ∳ransportation and Air Quality July 2014

<u>Min Value</u>	Max Value	Allowed Values	Industry	Process	Example	IT Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Front-End Validation	Back-End Validation	Applicable Business Rules
		N = New dataset C = Correction of an existing Verify dataset	Light Duty	FE CAFE			Mfr	Front End	XML			LD-FE-CA-BR217
			Light Duty	FE CAFE		Derived from user login	Verify	Front End	XML			LD-FE-CA-BR001a LD-FE-CA-BR001b LD-FE-CA-BR001c LD-FE-CA-BR002 LD-FE-CA-BR016 LD-FE-CA-BR017 LD-FE-CA-BR021a LD-FE-CA-BR021b LD-FE-CA-BR021c LD-FE-CA-BR021c LD-FE-CA-BR021c LD-FE-CA-BR212 LD-FE-CA-BR213
1957	2100		Light Duty	FE CAFE		Lock the MY CAFE data after the official MY CAFE letter is sent. Data can't be modified w/o unlocked by EPA staff.	Mfr	Front End	XML			LD-FE-CA-BR001a LD-FE-CA-BR001b LD-FE-CA-BR001c LD-FE-CA-BR002 LD-FE-CA-BR008 LD-FE-CA-BR168 LD-FE-CA-BR213 LD-FE-CA-BR214
		LT = Light Trucks PV = Passenger Vehicles	Light Duty	FE CAFE		Based on the model type fuel indicator fields CA-26 to CA-28, Verify will be programmed to calculate the baseline (unadjusted and adjusted 4- decimal place) CAFE mpg values, the final (4-decimal place) CAFE mpg value and the rounded (one-decimal place) Official CAFE values. The Official CAFE values. The Official CAFE values. The Official CAFE values is limited to a maximum CAFE incentive credit of 1.2 mp for 1993-2010 model years. See notes to data elements CA-26 to CA-28. The CAFE incentive credit for dual and alt-fuels can change from year to year. Create a look- up table for the allowed maximum dual fuel, alternate fueled vehicle CAFE credit vs. applicable model year.	Mfr	Front End	XML			LD-FE-CA-BR001a LD-FE-CA-BR001b LD-FE-CA-BR001c LD-FE-CA-BR002 LD-FE-CA-BR213
		N=No Y=Yes	Light Duty	FE CAFE			Mfr	Front End	XML			LD-FE-CA-BR034
		CREE = CREE OPT-CREE = OPT-CREE	Light Duty	FE CAFE			Mfr	Front End	XML			LD-FE-CA-BR035 LD-FE-CA-BR160 LD-FE-CA-BR161 LD-FE-CA-BR162
		N=No Y=Yes (2012 to 2014 only)	Light Duty	FE CAFE		'Yes' is only allowed for 2012 to 2014 model years	Mfr	Front End	XML			LD-FE-CA-BR033

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		N=No	Light Duty	EE CAEE		VenifwrLight	-Duty=Data Reguire	hentsx MI		LD-FE-CA-BR214
		Y=Yes	Light Duty	TE OATE				XWIE		
			Light Duty	FE CAFE	The list of manufacture codes assigned to the contacts in the Manufacturer Module assigned to Light Duty Vehicle Truck and the FE CAFE compliance program	Mfr	Front End	XML		LD-FE-CA-BR211 LD-FE-CA-BR218
0	99999999				New Verify calculation	Verify	Back End	Assigned		
0	9999999				New Verify calculation	Verify	Back End	Assigned		
0	9999999				New Verify calculation	Verify	Back End	Assigned		
0	9999999				New Verify calculation	Verify	Back End	Assigned		
0	9999999				New Verify calculation	Verify	Back End	Assigned		
0	9999999					Mfr	Front End	XML		LD-FE-CA-BR039
0	9999999					Mfr	Front End	XML		LD-FE-CA-BR156
0	9999999					Mfr	Front End	XML		LD-FE-CA-BR040
0	9999999					Mfr	Front End	XML		LD-FE-CA-BR041
0	9999999					Mfr	Front End	XML		LD-FE-CA-BR042

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0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-66) is done.	V q/ðyí fyght	-Drit 199919 12 Holdrinen	^{ne} Ma≨signed	
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-66) is done.	Verify	Back End	Assigned	
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-66) is done.	Verify	Back End	Assigned	
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-66) is done.	Verify	Back End	Assigned	
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-67) is done.	Verify	Back End	Assigned	
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-67) is done.	Verify	Back End	Assigned	
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-67) is done.	Verify	Back End	Assigned	
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-67) is done.	Verify	Back End	Assigned	

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0	9999.9999						Mfr	Front End	XML	LD-FE-CA-BR056
0	9999.9999						Mfr	Front End	XML	LD-FE-CA-BR057
0	9999.9999						Mfr	Front End	XML	LD-FE-CA-BR058
0	9999.9999						Mfr	Front End	XML	LD-FE-CA-BR059
0	9999						Mfr	Front End	XML	LD-FE-CA-BR060
0	9999						Mfr	Front End	XML	LD-FE-CA-BR061
0	9999.9						Mfr	Front End	XML	LD-FE-CA-BR062
0	9999.9999						Mfr	Front End	XML	LD-FE-CA-BR063
0	9999 9999				VenifwerLight	-Duty ⊏Data Regu iren	entsx _{MI}	I D-EE-CA-BR064		
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	00000									
0	9999.9				Mfr	Front End	XML	LD-FE-CA-BR065		
0	9999.9				Mfr	Front End	XML	LD-FE-CA-BR066		
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-76) is done.	Verify	Back End	Assigned			
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-76) is done.	Verify	Back End	Assigned			
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-76) is done.	Verify	Back End	Assigned			
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-76) is done.	Verify	Back End	Assigned			
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-77) is done.	Verify	Back End	Assigned			

0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-77) is done.	V qr_đy_it yght	-Dn r8999 RUG nireu	^{te} Atsigned	
0	1.0000			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-77) is done.	Verify	Back End	Assigned	
0	9999.9999			This value is is an intermediate calculation result, and should be written any time the 'EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal calculation' (CA-77) is done.	Verify	Back End	Assigned	
0	9999.9999				Mfr	Front End	XML	LD-FE-CA-BR079
0	9999.9999				Mfr	Front End	XML	LD-FE-CA-BR080
0	9999.9999				Mfr	Front End	XML	LD-FE-CA-BR081
0	9999.9999				Mfr	Front End	XML	LD-FE-CA-BR082
0	9999.9999				Mfr	Front End	XML	LD-FE-CA-BR083

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0	9999			VenjingrLight	-Duty=Data Reguiren	nentsxMI		I D-FE-CA-BR084
0	9999			Mfr	Front End	XML		LD-FE-CA-BR085
0	9999.9			Mfr	Front End	XML		LD-FE-CA-BR086
0	9999.9999			Mfr	Front End	XML		LD-FE-CA-BR087
0	9999.9999			Mfr	Front End	XML		LD-FE-CA-BR088
0	9999.9			Mfr	Front End	XML		LD-FE-CA-BR089
0	9999.9			Mfr	Front End	XML		LD-FE-CA-BR090
0	9999			Verify	Back End	Assigned		

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0	0000.0			Vorifi	Dook End	Assigned	
0	9999.9			verny	BACK EIIU	Assigned	
0	9999.9			Verify	Back End	Assigned	
0	9999.9			Verify	Back End	Assigned	
-							
0	9999			Mfr	Front End	XML	LD-FE-CA-BR096
0	9999			Mfr	Front End	XML	LD-FE-CA-BR096
0	9999			Mfr	Front End	XML	LD-FE-CA-BR096
0	9999			Mfr	Front End	XML	LD-FE-CA-BR096
0	9999			Mfr	Front End	XML	LD-FE-CA-BR096
0	9999			Mfr	Front End	XML	LD-FE-CA-BR096
0	9999			Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999			Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999			Mfr Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999			Mfr Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999			Mfr Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999			Mfr Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9			Mfr Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9			Mfr Mfr Mfr	Front End Front End Front End	XML XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9			Mfr Mfr Mfr	Front End Front End Front End	XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End	XML XML	LD-FE-CA-BR096
0	9999 9999 99999 9999.9			Mfr Mfr Mfr	Front End Front End Front End	XML XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9			Mfr Mfr Mfr	Front End	XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End	XML XML	LD-FE-CA-BR096
0	9999 9999 99999 99999.9 99999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End Front End	XML XML XML XML XML XML	LD-FE-CA-BR096
0	9999 9999 9999 9999.9 9999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End Front End	XML XML XML XML XML XML	LD-FE-CA-BR096
0	9999 9999 99999 99999.9 99999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End Front End	XML XML XML XML XML XML XML	LD-FE-CA-BR096
0	9999 9999 99999 99999.9 99999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End Front End	XML XML XML XML XML XML XML XML XML	LD-FE-CA-BR096
0	9999 9999 9999.9 9999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End Front End	XML XML XML XML XML XML XML XML	LD-FE-CA-BR096
0	9999 9999 99999 99999.9 99999.9			Mfr Mfr Mfr Mfr	Front End Front End Front End Front End	XML XML XML XML XML XML XML XML XML	LD-FE-CA-BR096

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0	9999.9						VentMrLigh	t-Dut <i>t</i> Ek9946 Referrire	mentsXML		LD-FE-CA-BR100
dual mfr for MY	2010 and later)										
		R = Reformed CAFE U = Unreformed CAFE (existing requirements)	Light Duty	FE CAFE			Mfr	Front End	XML		LD-FE-CA-BR004
e not allowed.											
			Light Duty	FE CAFE	GL-1)	Verify	Front End	XML		LD-FE-CA-BR138 LD-FE-CA-BR169 LD-FE-CA-BR208
1	99		Light Duty	FE CAFE	GL-1	L	Verify	Front End	XML		LD-FE-CA-BR139
											LD-FE-CA-BR208
1	999		Light Duty	FE CAFE	GL-1:	2	Verify	Front End	XML		LD-FE-CA-BR140 LD-FE-CA-BR208
			Light Duty				Vorifi	Dook End	Dro ovioting		
				FE CAFE	GL-1.		veniy	Dack Ellu	data		
1	999		Light Duty	FE CAFE	GL-6	5	Verify	Back End	Pre-existing data		
		D = Domestic I = Import	Light Duty	FE CAFE			Mfr	Front End	XML		LD-FE-CA-BR101
		Y = Yes	Light Duty	FE CAFE			Mfr	Front End	XMI		D-FF-CA-BR102a
		N = No									LD-FE-CA-BR102b
		Y = Yes N = No	Light Duty	FE CAFE	Wher (Calc	e is this data coming from. Jlation?, other dataset?)	Verify	Back End	Pre-existing data		

1	99	Light Duty	FE CAFE	FT-5	vevevitygni	-Darkerkerkerker	nentsXML	LD-FE-CA-BR143 LD-FE-CA-BR157
		Light Duty	FE CAFE	FT-6	Verify	Back End	Pre-existing data	
0	9999999	Light Duty	FE CAFE		Mfr	Front End	XML	
0	9999999	Light Duty	FE CAFE	Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHG/CREE calculation. I.E. emergency vehicles, sales in U.S.	Mfr	Front End	XML	LD-FE-CA-BR104
0	9999999	Light Duty	FE CAFE	Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHG/CREE calculation. I.E. emergency vehicles, sales in U.S.	Mfr	Front End	XML	LD-FE-CA-BR145
0.1	9999.9	Light Duty	FE CAFE	Territories, etc. The GHG sales will be added in Phase 2.	Verify	Back End	Pre-existing data	
0.1	999.9	Light Duty	FE CAFE		Verify	Back End	Pre-existing data	
0.1	999.9	Light Duty	FE CAFE		Verify	Back End	Pre-existing data	

0.1	999.9	Light Duty	FE CAFE		Verify should calculate the footprint and display it on the front end using the following equation: Footprint = (((Front Track Width (CA-17) + Rear Track Width (CA- 18)) / 2) * Wheelbase (CA-16)) / 144 rounded to one tenth of a square foot using ASTM rounding procedures. The result should then be stored on the back end. Any changes to CA-17, CA-18 or CA-16 should trigger a recalculation of this value.	V ≪réviķi sht	-Dut gaga <u>B</u>ag uirer	data data		
0.01	999.99	Light Duty	FE CAFE		Verify should compare this value with the EPA-calculated value (CA-21.5) and report any discrepancy in the submission processing report sent to the mfr. The discrepancy status should be stored and displayed on the back end.	Verify	Backend	Pre-existing Data		
0.01	999.99	Light Duty	FE CAFE	FT-14	Verify should compare this value with the mfr-calculated value (CA- 21) and report any discrepancy in the submission processing report sent to the mfr. The discrepancy status should be stored and displayed on the back end. See separate FE calculation document for the equation as well as the table of required coefficients (Section 533.3, Table V Parameters for the Reformed CAFE FE Targets) by model year. This table should be modifiable by EPA.	Verify	Back End	Pre-existing Data		
0.0	9999.9	Light Duty	FE CAFE			Mfr	Front End	XML		LD-FE-CA-BR154
0.0	9999.9	Light Duty	FE CAFE			Verify	Back End	Assigned		
-9999.9	9999.9	Light Duty	FE CAFE			Verify	Back End	Assigned		
0	9999	Light Duty	FE CAFE			Verify	Back End	Assigned		

0.0	9999.90	Light Duty	FE CAFE		VentingrLight	-Dut y= ନିର୍ବା ଶ୍ ଝିନ୍ୟା irei	nentsXML	
0.0	9999.9	Light Duty	FE CAFE		Verify	Back End	Assigned	
-9999.9	9999.9	Light Duty	FE CAFE		Verify	Back End	Assigned	
0	9999	Light Duty	FE CAFE		Verify	Back End	Assigned	
		Light Duty	FE CAFE		Mfr	Front End	XML	
0.0000	999.9999	Light Duty	FE CAFE		Mfr	Front End	XML	LD-FE-CA-BR018
0.0000	999.9999	Light Duty	FE CAFE	See separate FE calculation document for the equation.	Verify	Back End	Assigned	
-999.9999	999.9999	Light Duty	FE CAFE	This value is the difference between the EPA Calculated Unrounded Reformed CAFE Standard (CA-22) and the Mfr Calculated Unrounded Reformed CAFE Standard (CA-21). calcReformCAFEdiscrepancyValu e (CA-22.5) = (CA-22) - (CA- 22.3)	Verify	Back End	Assigned	
0.0	999.9	Light Duty	FE CAFE	See separate FE calculation document for the equation.	Verify	Back End	Assigned	
		Light Duty	FE CAFE		Mfr	Front End	XML	
0.0000	999.9999	Light Duty	FE CAFE		Mfr	Front End	XML	LD-FE-CA-BR205

0.0000	999.9999	Light Duty	FE CAFE	See separate FE calculation document for the equation.	Verierityityigh	t-DutyBaata Baguiren	^{hen} Atssigned		
-999.9999	999.9999	Light Duty	FE CAFE	This value is the difference between the EPA Calculated Unrounded Reformed CAFE Standard (CA-22) and the Mfr Calculated Unrounded Reformed CAFE Standard (CA-21). calcReformCAFEdiscrepancyValu e (CA-22.5) = (CA-22) - (CA-	Verify	Back End	Assigned		
				22.3)					
0.0	999.9	Light Duty	FE CAFE	See separate FE calculation	Verify	Back End	Assigned		
				document for the equation.			/.oo.g.rou		
0.0000	999.9999	Light Duty	FE CAFE		Mfr	Front End	XML		LD-FE-CA-BR206
0.0000	999.9999	Light Duty	FE CAFE	See separate FE calculation	Verify	Back End	Assigned		
-999.9999	999.9999	Light Duty	FE CAFE	This value is the difference between the EPA Calculated Unrounded Reformed CAFE Standard (CA-22) and the Mfr Calculated Unrounded Reformed CAFE Standard (CA-21).	Verify	Back End	Assigned		
				calcReformCAFEdiscrepancyValu e (CA-22.5) = (CA-22) - (CA- 22.3)					
0.0	999.9	Light Duty	FE CAFE	See separate FE calculation document for the equation.	Verify	Back End	Assigned		
	Y = Yes	Light Duty	FE CAFE		Verify	Back End	Assigned		
	Y = Yes N = No	Light Duty	FE CAFE		Verify	Back End	Assigned		

			Light Duty	FE CAFE			Verenifyght	-DutyBlagta Readurrer	nerA4ssigned	
			Light Duty	FE CAFE			Mfr	Front End	XML	LD-FE-CA-BR008 LD-FE-CA-BR032 LD-FE-CA-BR169 LD-FE-CA-BR208
1	999		Light Duty	FE CAFE		Reference all model type info in FE Label via this model type index (CA-25) + mfr code (CA-0) + model year (CA-1).	Mfr	Front End	XML	LD-FE-CA-BR008 LD-FE-CA-BR032 LD-FE-CA-BR203 LD-FE-CA-BR204 LD-FE-CA-BR208
		Y = Yes N = No	Light Duty	FE CAFE			Verify	Back End	Assigned	
			Light Duty	FE CAFE			Verify	Back End	Assigned	
0	999.9999						Verify	Back End	Assigned	
0	999.9999						Verify	Back End	Assigned	
0	999.9999						Verify	Back End	Assigned	
0	9999.9						Verify	Back End	Assigned	
0	9999.9						Verify	Back End	Assigned	
0	9999.9						Verify	Back End	Assigned	
0	9999999						Verify	Back End	Assigned	
0	9999999				1		Verify	Back End	Assigned	
0	9999999						Verify	Back End	Assigned	
neans a unique	combination o	f BasicEngineIndex, Transmissic	nClassIndex and	Inertia Weight)			14.16	Estat Est		
1	99		Light Duty	FE CAFE		Assigned by Verify as a sequential incrementer for each base level (i.e. inertia weight class) entered by the mfr. Data elements GL-110 through GL-116 make this a repeating dataset.	Verity	Front End	XML	

0	99999	Light Duty	FE CAFE	Mfrs must enter this so EPA knows which configuration and subconfiguration for which they are adding new tests for CAFE purposes. GL-110	Ve riji_n Light	-Dut y: Rota Brauiren	ients <u>XML</u>	LD-FE-CA-BR023 LD-FE-CA-BR187 LD-FE-CA-BR188 LD-FE-CA-BR190 LD-FE-CA-BR190 LD-FE-CA-BR191 LD-FE-CA-BR193 LD-FE-CA-BR193 LD-FE-CA-BR195 LD-FE-CA-BR196 LD-FE-CA-BR197 LD-FE-CA-BR198 LD-FE-CA-BR198 LD-FE-CA-BR199 LD-FE-CA-BR200
	999	Light Duty	FE CAFE		Mfr	Front End	XML	LD-FE-CA-BR024 LD-FE-CA-BR171
								LD-FE-CA-BR026
		Light Duty	FE CAFE		Mfr	Front End	XML	LD-FE-CA-BR026
0.01	9.99	Light Duty	FE CAFE		Mfr	Front End	XML	LD-FE-CA-BR026

1	99		Light Duty	FE CAFE		Ve niðr ilight	-Dut x-Rafe <u>B</u>agu iren	hents <u>XML</u>		LD-FE-CA-BR025 LD-FE-CA-BR172 LD-FE-CA-BR173
0	99.9		Light Duty	FE CAFE		Mfr	Front End	XML		LD-FE-CA-BR027
		1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875, 4000, 4250, 4500, 4750, 5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9000, 9500,10000, 10500, 11000, 11500, 12000, 12500, 13000, 13500, 14000	Light Duty	FE CAFE		Mfr	Front End	XML		LD-FE-CA-BR027 LD-FE-CA-BR200
0	999.9		Light Duty	FE CAFE		Mfr	Front End	XML		LD-FE-CA-BR210

					venyngagna	-nor t-folki Ekil nirei	ientsXML	LD-FE-CA-BR169 LD-FE-CA-BR169 LD-FE-CA-BR202 LD-FE-CA-BR207
1	99				Mfr	Front End	XML	LD-FE-CA-BR168 LD-FE-CA-BR169 LD-FE-CA-BR202
1	999				Mfr	Front End	XML	LD-FE-CA-BR168 LD-FE-CA-BR169 LD-FE-CA-BR202
		Light Duty	FE CAFE	TG-2, GL-126	Mfr	Front End	XML	LD-FE-CA-BR170 LD-FE-CA-BR201 LD-FE-CA-BR202

					110.00	Det Det S	d and a	 1	1
0	999999	Light Duty	FE CAFE	Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHG/CREE calculation. I.E. emergency vehicles, sales in U.S Territories, etc. The GHG sales will be added in Phase 2.	Venjijn-Light	⊦Dut ⊊₽9₩ ₿₩₩ irer	ntents, ML		LD-FE-CA-BR136
0	999999	Light Duty	FE CAFE	Note to CSC: The production units that apply to fuel economy (CAFE) may be different than the production units that apply to the GHG/CREE calculation. I.E. emergency vehicles, sales in U.S Territories, etc. The GHG sales will be added in Phase 2.	Mfr	Front End	XML		
		Light Duty	EE CAEE	TI-2 GI -127	Mfr	Front End	XMI		
		Ligin Daty					AWL		LD-FE-CA-BR010 LD-FE-CA-BR011a LD-FE-CA-BR012a LD-FE-CA-BR012a LD-FE-CA-BR020 LD-FE-CA-BR175 LD-FE-CA-BR175 LD-FE-CA-BR175 LD-FE-CA-BR185 LD-FE-CA-BR185 LD-FE-CA-BR203 LD-FE-CA-BR204
		Light Duty	FE CAFE	Find 'Vehicle ID' (TI-4) via Test Number (GL-127). TI-4> VI-3	Verify	Back End	Pre-existing data		

0	99		Light Duty	FE CAFE	Find 'Vehicle Configuration	Verifyitight	-DutyoData Requirer	n ente existing		
			Light Duty		Number' (TI-5) via Test Number (GL-127).	Veniye		data		
					TI-5> VI-4					
		N=No Y=Yes	Light Duty	FE CAFE		Verify	Back End	Pre-existing data		
		N = No Y = Yes	Light Duty	FE CAFE		Mfr	Front End	XML		LD-FE-CA-BR186
		N = No averaging	Light Duty	FE CAFE		Mfr	Front End	XML		LD-FE-CA-BR137
		n) (FET(i) * WT(i))) H = Harmonic averaging								LD-FE-CA-BR178
		(1/(Sum(i=1 to n) (FET(i) / WT(i)))								
				55 0455			E E I.			
			Light Duty	FE CAFE		MIT	Front End	XML		LD-FE-CA-BR013 LD-FE-CA-BR166 LD-FE-CA-BR167
										LD-FE-CA-BR180 LD-FE-CA-BR181 LD-FE-CA-BR182

					-				
	0.01	0.99	Light Duty	FE CAFE		VentinfrLigh	-Duty=Pata Requiren	entsXML	
									LD-FE-CA-BR014
									LD-FE-CA-BR181
									LD-FE-CA-BR182
L									

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Verify Light-Duty Data Requirements

Date	2014-July-21

Release TBD																		
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	<u>Required</u>	Multiplicity	<u>Basic</u> Data Type	<u>Data Type</u> <u>Description</u>	<u>Min</u> Length	<u>Max</u> Length	<u>Pattern</u>	<u>Total</u> Digits	Fractional Digits	<u>Min</u> <u>Value</u>	<u>Max</u> <u>Value</u>	Allowed Values	Industry	Process
IUVP Vehicle Inform	ation		In Ico (orification Drogra															
		Select the desired process code	mSubmission/ VehicleInformationDetail s or InUseVerificationProgra	VehicleProcessCo												N = New Vehicle Submission C = Correction Vehicle Submission D = Delete Vehicle Submission P = Request Paport of Vehicle		
IV-1	Process Code	for the current submission.	eteReportDetails	de	1		A(1)	Enumeration								Submission	Light-Duty	IUVP
IV-2	Manufacturer Code (key field)	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	InUseVerificationProgra mSubmission/ VehicleInformationDetail s or InUseVerificationProgra mSubmission/VehicleDel eteReportDetails InUseVerificationProgra mSubmission/	EPAManufacturer Code	1		A(3)	Fixed String	3	3	[A-Z0-9] {3}	3					Light-Duty	IUVP
			VehicleInformationDetail															
IV-3	Vehicle Identification Number (key field)	Enter the 17-character vehicle identification number (VIN) found under the windshield glass on the driver's side of the dashboard.	s or InUseVerificationProgra mSubmission/VehicleDel eteReportDetails	VehicleIdentificatio nNumberText	1		A(17)	String	17	17		17	0				Light-Duty	IUVP
																	<u> </u>	
IV-4	Emission Program (key field)	Select the applicable in-use emission program for this test vehicle.	InUseVerificationProgra mSubmission/ VehicleInformationDetail s or InUseVerificationProgra mSubmission/VehicleDel eteReportDetails	EmissionProgramI dentifier	1		A(4)	Enumeration								IUVB = Used to meet both EPA and California IUVP requirements IUVC = Used to meet EPA IUVP requirements (mfr) IUVC = Used to meet California IUVP requirements (mfr) IUCB = used to meet both EPA and California IUCF requirements (mfr) IUCC = Used to meet EPA IUCP requirements (mfr) R1 = EPA In-Use Surveillance Testing (EPA only) R2 = EPA In-Use Surveillance Testing (EPA only) R2 = EPA In-Use Surveillance Testing (EPA only) R2 = California In-Use confirmatory testing Phase 1 (ARB-only) C2 = California In-Use confirmatory testing Phase 2 (ARB-only)	Light-Duty	IUVP
		A code that may be accigned by	InUseVerificationProgra															
		EPA to an in-use test program-	VehicleInformationDetail	EPAInvestigationN														
IV-5	EPA Investigation Number	Does not apply to mfr-IUVP data.	s	umber	0	01	A(10)	String		10		10	0				Light-Duty	IUVP
	Tool Grow Nor-	Enter the Test Group Name for	InUseVerificationProgra mSubmission/ VehicleInformationDetail	TastCrowNew	1		A(10)	Fixed string	10	10	[A-HJ- NPR-TV- Y1-9]{1} [A-Z0-9] {4,11}([\\.] [A-Z0-9]						Light Dir	
IV-0	rest Group Name	unis test venicie.	S	restGroupName	1		A(12)	Fixed string	12	12	{1,0})?						Light-Duty	ΙΟΥΡ
IV-7	Evaporative Family Name	Enter the Evaporative/Refueling Family Name for this test vehicle.	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	EvaporativeRefuel ingFamilyName	0	01	A(12)	Fixed String	12	12	[A-HJ- NPR-TV- Y1-9]{1} [A-Z0-9] {4}[0-9]{4} [A-Z0-9] {3}						Light-Duty	IUVP

																		Quality
																		, 2014
		Enter a unique 3-character string																
IV-7.1	Leak Family Identifier	within an Evaporative Family			0	1 per Evap Family	A(3)	String	3	3 :	[A-Z0-9] 3 {3}					Light Duty I	IUVP	
			InUseVerificationProgra mSubmission/															
IV-8	Model Year	The model year for this test vehicle configuration.	VehicleInformationDetail	ModelYear	1		N(4)	Year type (1970- 2100)						1970	2100	Light-Duty	IUVP	
		Enter the applicable engine	InUseVerifiCationProgra mSubmission/															1
IV-9	Displacement	displacement in liters for this test vehicle.	VehicleInformationDetail s	EngineDisplaceme ntValue	1		N(6,3)	Decimal				5	3	0.001	99.999	Light-Duty	IUVP	
																		1
			InUseVerificationProgra mSubmission/															
1\/-10	Division Code (Make)	Enter the division/make code for	VehicleInformationDetail	ManufacturerDivisi	1		N(2)	Integer	2	2				0	99	Light-Duty		
10.10			3	Uncode	1		11(2)	integer	~ ~	2				0		Light Duty		1
			InUseVerificationProgra															
N/ 11	Carlina Carla (Madal)	Enter the applicable carline code	VehicleInformationDetail	Carlina Carla			N/O)	Interes	_					0				
10-11	Carline Code (Model)	for this test vehicle.	InUseVerificationProgra mSubmission/	CanineCode	L		N(3)	Integer	3	3				0	999	Light-Duty	1075	1
1)/ 12	Varify Division/Maka Nama	Verify Entry of the Division	VehicleInformationDetail	VerifyDivisionMak	1		A(20)	String								Light Duty		
10-12	Verify Division/make Name		InUseVerificationProgra mSubmission/	ename	1		A(20)	Stillig								Light-Duty	10.64	1
IV-13	Verify Carline Name	Verify Entry of the Carline Name for this test vehicle	VehicleInformationDetail	VerifyCarlineNam e	1		A(32)	String								l ight-Duty	IUVP	
			InUseVerificationProgra mSubmission/	Ū			/(02)	Cling								Light Duty		1
IV-12a	Division Name (Make)	Enter the Division Name/Make for this test vehicle.	VehicleInformationDetail	DivisionMakeNam e	1		A(20)	String								Light-Duty	IUVP	
			InUseVerificationProgra mSubmission/															1
IV-13a	Carline Name (Model)	Enter the Carline Name for this test vehicle.	VehicleInformationDetail	CarlineName	1		A(32)	String								Light-Duty	IUVP	
		Enter the trim level for this test	mSubmission/															
IV-14	Trim Level	etc.)	s	TrimLevelText	0	01	A(20)	String								Light-Duty	IUVP	
		vehicle model name. This is not	mSubmission/															
IV-15	Mfr Vehicle Model Name	a required field and may be used at the manufacturer's discretion.	VehicleInformationDetail	VehicleModelNam e	0	01	A(20)	String								Light Duty	IUVP	
		Color area from where the	mSubmission/) (abiala Dra avra dC														
IV-16	Vehicle Procured Sales Area	vehicle is obtained.	InUseVerificationProgra	alesArealdentifier	1		A(2)	Enumeration							FA = Federal	Light-Duty	IUVP	_
		Select the state from which this	mSubmission/	VehicleProcuredSt											Provide a full list of state abbreviations for			
IV-17	Vehicle Procured State	test vehicle was procured.	InUseVerificationProgra	ateldentifier	1		A(2)	Enumeration							the United States.	Light-Duty	IUVP	4
		Altitude of area from where the	mSubmission/ VehicleInformationDetail	VehicleProcuredAl											L = Low			
IV-18	Vehicle Procured Altitude	vehicle is obtained.	InUseVerificationProgra	titudeIndicator	1		A(1)	Enumeration							H = High	Light-Duty	IUVP	-
		Climate of the area from where	mSubmission/ VehicleInformationDetail	VehicleProcuredCl											W = Warm area			
IV-19	Vehicle Procured Climate	the vehicle is obtained	s InUseVerificationProgra	imateIndicator	1		A(1)	Enumeration							C = Cold area	Light-Duty	IUVP	-
			mSubmission/															
			S Or Int IseVerificationProgra												H =High mileage (minimum of 50,000 miles)			
11/20	Niloogo Cotogony	The mileage category of this test	mSubmission/VehicleDel	MileageCategoryI	1		A(1)	Fourmoration							L = Low mileage (minimum of 10,000			
IV-20	wheade Category	venicie.	etekeportDetallS	I nuicator	T	1	A(1)	⊢ ⊑numeration		1	1	1	1		(IIIIIeS)	LIGHT-DUTY	IUVP	1

						Verify L	ight-Duty Data	Requirements							Office	df Transporta	tion and Air Oual
N/-21	75% llsoful life	Is this vehicle being used to meet	InUseVerificationProgra mSubmission/ VehicleInformationDetail	SeventyFivePerce ntUsefulLifeIndicat or	1		A(1)	Enumeration							Y = Yes, vehicle used to meet 75% of useful life requirement and odometer > 75% of useful life L = Yes, vehicle used to meet 75% of useful life requirement but odometer < 75% (Requires EPA/CARB approval) N = No, vehicle not used to meet 75% of useful life requirement	Light-Duty	July 20:
10-21		the 75% useful life requirement?	InUseVerificationProgra	UI	1		A(1)	Litumeration				-				Light-Duty	
IV-22	Odometer at time of Procurement	Enter the odometer reading (in miles) at the time of the vehicle procurement	mSubmission/ VehicleInformationDetail s	OdometerStartVal ue	1		N(7,1)	Decimal	1	7	7	1				Light Duty	IUVP
IV-23	Transmission Type?	Enter the transmission type for this test vehicle configuration.	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	TransmissionType Identifier	1		A(3)	Enumeration							A = Automatic AM = Automated Manual M = Manual SA = Semi-Automatic CVT= Continuously Variable SCVT=Selectable Continuously Variable (e.g. CVT with paddles) AMS= Automated Manual- Selectable (e.g. Automated Manual with paddles) OT = Other	Light Duty	IUVP
IV-24	Transmission Type Other Description?	Enter a description of the transmission type if "Other" is selected.	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	TransmissionType OtherText	1		A(30)	String	1	30						Light Duty	IUVP
11/-25	Transmission Lockun?	Is the transmission on this test vehicle configuration equipped with lockup?	InUseVerificationProgra mSubmission/ VehicleInformationDetail	TransmissionLock	1		A(1)	Enumeration							Y=Yes	Light Duty	
11/25		with lockup:	3	upindicator	1		7(1)	Enumeration								Light Duty	1011
IV-26	Creeper Gear?	Is the transmission on this test vehicle configuration equipped with a creeper gear?	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	TransmissionCree perGearIndicator	1		A(1)	Enumeration							Y=Yes N=No	Light Duty	IUVP
IV-27	Number of Transmission Gears?	Enter the number of transmission gears on this test vehicle configuration. If this vehicle is equipped with a "transmission type" of "CVT", enter "1" for the number of gears.	InUseVerificationProgra mSubmission/ VehicleInformationDetail InUseVerificationProgra	TransmissionGear Count	1		N(2)	Integer					1	99		Light Duty	IUVP
			mSubmission/														
IV-28	Tire Size	Enter the tire size for this test vehicle.	VehicleInformationDetail	TireSizeText	0	01	A(12)	String								Light Duty	IUVP
IV-29	Axle Ratio	Enter the axle ratio for this test vehicle.	mSubmission/ VehicleInformationDetail InUseVerificationProgra	AxleRatioValue	0	01	N(3,2)	Decimal			3	2	0.00	9.99		Light Duty	IUVP
IV-30	Engine Code	Enter the engine code for this test vehicle.	mSubmission/ VehicleInformationDetail s	EngineCodeText	0	01	A(14)	String								Light Duty	IUVP
IV-31	ETW	Equivalent Test Weight in pounds	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	EquivalentTestWei ghtValue	0	01	1(5)	Enumeration							1000, 1125, 1250, 1375, 1500, 1625, 1750, 1875, 2000, 2125, 2250, 2375, 2500, 2625, 2750, 2875, 3000, 3125, 3250, 3375, 3500, 3625, 3750, 3875, 4000, 4250, 4500, 4750, 5000, 5250, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9000, 9500,10000, 10500, 11000, 11500, 12000, 12500, 13000, 13500, 14000	Light Duty	IUVP

						Verify Lig	ht-Duty Data	Requirements							Office	of Transport?	tion and Air Qualit
																	July 201
IV-32	Date of Inspection	Enter a valid calendar date that the inspection was conducted.	InUseVerificationProgra mSubmission/ VehicleInformationDetail s	VehicleInspection Date	0	01	D(8)	Date			[1-2]{1}[0- 9]{3}[0-1] {1}[0-9]{1} [0-3]{1}[0- 9]{1}					Light Duty	IUVP
			-		-		_ (-)				-1(-)						
IV-33	Build Date	Enter the valid calendar date on which this test vehicle was built.	InUseVerificationProgra mSubmission/ VehicleInformationDetail InUseVerificationProgra	VehicleBuiltDate	1		D(8)	Date			[1-2]{1}[0- 9]{3}[0-1] {1}[0-9]{1} [0-3]{1}[0- 9]{1}					Light Duty	IUVP
		Is the MIL dashboard bulb	mSubmission/														1
IV-34	Visual MIL Status	off)?	VenicieInformationDetail	LightIndicator	0		A(1)	Enumeration							N = MIL Dashboard Bulb Illuminated	Light Duty	IUVP
IV-35	Commanded MIL Status	Is the MIL commanded "On"?	HILSEVERIFICATIONProgra mSubmission/ VehicleInformationDetail	CommandedMalfu nctionLightIndicato r	1		A(1)	Enumeration							Y = MIL commanded on N = MIL commanded off	Light Duty	IUVP
		Are there any active trouble	mSubmission/														1
IV-36	Active Trouble Codes Status	codes present during the initial inspection?	VehicleInformationDetail s	ActiveTroubleCod eIndicator	1			Enumeration							Y = Active Trouble Codes Present N = No Active Trouble Codes Present	Light Duty	IUVP
IV-37	Trouble Codes	Enter all applicable 5-digit OBD diagnostic trouble codes. For example, P0### or P1###.	InUseVerificationProgra mSubmission/ VehicleInformationDetail s	ActiveTroubleCod e	0	010	A(5)	Fixed String	5	5	[A-Z0-9] {5}	5				Light Duty	IUVP
IV-38	Readiness Status Complete?	Are all the readiness monitors complete?	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	ReadinessStatusC ompleteIndicator	1		A(1)	Enumeration							Y = all readiness monitors are complete N = not all readiness monitors are complete	Light Duty	IUVP
IV-39	Incomplete Readiness Status Codes	Enter the readiness monitors that are incomplete? Select all that apply.	InUseVerificationProgra mSubmission/ VehicleInformationDetail S	IncompleteReadin essStatusIndicator	0	07		Enumeration							CAT = Catalyst O2 = Oxygen Sensor EGR = Exhaust Gas Recirculation EVAP = Evaporative System HO2 = Oxygen Sensor Heater SECA = Secondary Air Ot = Other (must enter a description in the Vehicle Comment field if "Other" selected.	e Light Duty	IUVP
IV-39.5	Mileage Since OBD Leak Check Performed	Enter the mileage since the OBD Leak Check was performed if the OBD Leak Status was completed. This is required if 'Readiness Status Complete?' (IV-38) equals 'Y' (Yes) or 'Incomplete Readiness Status Codes' (IV-39) does not include 'EVAP' (Evaporative System).			0	01	N(4)	Integer				4	1	9999		Light Duty	IUVP

						Verify Lig	ht-Duty Data	Requirements			Office d	f Transportat	ion and Air Duali
						,	,						July 201
1440	Vehicle Dejection Code	Enter the applicable rejection code (after the initial inspection) for this test vabilab	InUseVerificationProgra mSubmission/ VehicleInformationDetail	VehicleRejectionC			(2)	Fourmanties			 0 = Vehicle was <u>not</u> rejected 1 = Odometer inoperative, replaced or out of range 2 = Emissions system tampering, leaded fuel operation or aftermarket security system 3 = Severe duty operation (trailer towing [pass. cars], snow plowing, racing) 4 = Extensive collision repair or major engine repair/rebuilding 5 = Ominous noises or serious leaks from engine, transmission and exhaust 6 = Vehicle unsafe for testing 7 = MIL light flashing (severe misfire indication) 8 = Other reason for rejection (requires EDA/CABR approximate) 	Light Dut	
IV-40	Vehicle Rejection Code	for this test vehicle.	S	ode	1		I(2)	Enumeration	1	2	EPA/CARB approval)	Light Duty	IUVP
IV-41	Vehicle Rejection Comments	If "01" through "08" was selected for the Vehicle Rejection Code, enter an explanation of the reason this test vehicle was rejected.	InUseVerificationProgra mSubmission/ VehicleInformationDetail s	VehicleRejectionC ommentText	0		A(500)	String	1	500		Light Duty	IUVP
IV-43	Air Aspiration Method	Enter the applicable air aspiration method for this test vehicle configuration.	InUseVerificationProgra mSubmission/ VehicleInformationDetail s	AirAspirationMeth odIdentifier	1		A(2)	Enumeration			NA=Naturally aspirated TC=Turbocharged SC=Supercharged TS=Turbocharged+Supercharged OT=Other	Light-Duty	IUVP
IV-44	Test Drive Code	Enter the applicable test drive code for the way this test vehicle configuration was/is to be tested.	InUseVerificationProgra mSubmission/ VehicleInformationDetail	TestDriveCode	1		A(1)	Enumeration			1 = Rear Drive Steering Left 2 = Rear Drive Steering Right 3 = Front Drive Steering Left 4 = Front Drive Steering Right 5 = Four Wheel Drive Steering Right 6 = Four Wheel Drive Steering Right 7 = Rear Drive Off Road 9 = Other	Light-Duty	IUVP
11/ 40		Enter any additional comments	mSubmission/ VehicleInformationDetail	VehicleCommentT			A(100C)	Christe		1000		Linkt Dur	
IV-42	IUVP vehicle Comments	regarding this test vehicle.	InUseVerificationProgra	ext	U		A(1000)	String		1000		Light Duty	IUVP
IV-45	Deletion Reason	The reason for deleting the vehicle submission	VehicleDeleteReportDeta ils	DeletionReportRe asonText	0	01	A(500)	String	1	500		Light Duty	IUVP

Notes/Questions	<u>Originator</u>	Collection Point	Collection Type	Applicable Business Rules
	Manufacturer	Front End	ХМІ	IV-BR25
	Manufacturer		XIVIL	IV-DILLS
	Verify	Front End	XML	LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b LD-IUVP-IV-BR002 LD-IUVP-IV-BR003a LD-IUVP-IV-BR003b LD-IUVP-IV-BR006 LD-IUVP-IV-BR009 LD-IUVP-IV-BR010
	Manufacturer	Front End	XML	LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b LD-IUVP-IV-BR002
		E E. I		LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b
	Manufacturer	⊢ront End	XML	LD-IUVP-IV-BR002
	EPA/CARB	Back-end	XML	
	Manufacturor	Front End	YMI	LD-IUVP-IV-BR004 LD-IUVP-IV-BR007
	wanuracturer		NVIL	
				LD-IUVP-IV-BR005 LD-IUVP-IV-BR008
	Manufacturer	Front End	XML	LD-IUVP-IV-BR010

	Manufacturer	Front End	XML	New BR: The combination of Evaporative Family Name (IV-7) and Leak Family Identifier (IV-7.1) must be an existing Evap/Refueling Family Name(EV-1) and Leak Family Identifier (EV-23) combination previously entered in the Evap/Refueling Family dataset.
	Manufacturer	Front end	XML	LD-IUVP-IV-BR007 LD-IUVP-IV-BR008 LD-IUVP-IV-BR024a LD-IUVP-IV-BR024b
	Manufacturer	Front End	ХМІ	
For any back-end reports/views/queries, always display both the division code and the division name.	Manufacturer	Front End	XML	LD-IUVP-IV-BR011
For any back-end reports/views/queries, always display both the carline code and the carline name.	Manufacturer	Front End	XML	LD-IUVP-IV-BR012
	Verify	Back-end	XML	
	Verify	Back-end	ХМІ	
	Manufacturer	Front-end	XML	
	Manufacturer	Front-end	XML	
	Manufacturer	Front End	XML	
	Manufacturer	Front end	XML	
	Manufacturer	Front End	XML	
	Manufacturer	Front End	XML	
	Manufacturer	Front End	XML	
	Manufacturer	Front End	XML	
	Manufacturer	Front End	XML	LD-IUVP-IV-BR001a LD-IUVP-IV-BR001b LD-IUVP-IV-BR002 LD-IUVP-IV-BR024a LD-IUVP-IV-BR024b

	Manufacturer	Front End	YMI	
	Manufacturer	FIONEENU	AIVIL	
	Manufacturer	Front End	XML	
This field was added to be consistent with transimission info in certification/confirmator y test vehicle information.	Manufacturer	Front end	XML	LD-IUVP-IV-BR015
This field was added to be consistent with transimission info in certification/confirmator y test vehicle information.	Manufacturer	Front end	XML	LD-IUVP-IV-BR013a LD-IUVP-IV-BR013b
This field was added to be consistent with transimission info in certification/confirmator y test vehicle information.	Manufacturer	Front end	XML	LD-IUVP-IV-BR014
This field was added to be consistent with transimission info in certification/confirmator y test vehicle				
This field was added to be consistent with transimission info in certification/confirmator	Manufacturer	Front end	XML	
y test vehicle information.	Manufacturer	Front end	XML	LD-IUVP-IV-BR016
	Manufacturer	Front end	XML	
	Manufacturer	Front end	XML	
	Manufacturer	Front end	XML	
	Manufacturer	Front end	XML	

Manufacturer	Front end	XML	LD-IUVP-IV-BR017
Manufacturer	Front and	YMI	LD-IUVP-IT-BR019a
Manufacturer	Tone chu	XIIIL	
Manufacturer	Front end	XML	
Manufacturer	Front end	XML	
Manufacturer	Front end	XML	LD-IUVP-IV-BR018
Manufacturer	Front End	XML	LD-IUVP-IV-BR019a LD-IUVP-IV-BR019b
Manufacturer	Front end	XML	
Manufacturer	Front end	XMI	LD-IUVP-IV-BR020a
manulacturer	i ioni enu		
Manufacturer	Front End	XML	New BR: If 'Readiness Status Complete?' (IV-38) equals 'Y' (Yes) or 'Incomplete Readiness Status Codes' (IV-39) does not include 'EVAP' (Evaporative System) then Mileage Since OBD Leak Check Performed (IV-39.5) is required.

 Manufacturer	Front End	XML	
Manufacturer	Front End	XML	LD-IUVP-IV-BR022
Manufacturer	Front end	XML	
Manufacturer	Front end	XML	
Manufacturer	Front End	XML	LD-IUVP-IV-BR021
Manufacturer	Front End	XML	LD-IUVP-IV-BR023

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Verify Light-Duty Data Requirements

Date 2014-September-26

Release TBD															
EPA Data Element Number	Long Name	Description	Parent's Name	XML Tag	<u>Required</u>	Multiplicity	<u>Basic</u> <u>Data</u> <u>Type</u>	Data Type Description	<u>Min</u> Length	<u>Max</u> Length	Pattern	<u>Total</u> Digits	Fractional Digits	<u>Min Value</u>	Max Value
IUVP Test Information															
IT-1	Process Code	Select the desired process code for the current submission.	InUseVerificationProg ramSubmission/ TestInformationDetail s or InUseVerificationProg ramSubmission/TestD eleteReportDetails	TestProcessCode	1		A(1)	Enumeration							
IT-2	Manufacturer Code (key field)	The 3-character alphanumeric code assigned by EPA to each manufacturer. This will be derived from user's CDX user account	InUseVerificationProg ramSubmission/ TestInformationDetail s or InUseVerificationProg ramSubmission/TestD eleteReportDetails	EPAManufacturerCode	1		A(3)	Fixed String	3	3	[A-Z0-9] {3}	3			
IT-3	Vehicle Identification Number (key field)	Enter the 17-character vehicle identification number (VIN) found under the windshield glass on the driver's side of the dashboard.	InUseVerificationProg ramSubmission/ TestInformationDetail s or InUseVerificationProg ramSubmission/TestD eleteReportDetails	VehicleIdentificationNum berText	1		A(17)	String	17	17		17	0		
IT-4	Emission Program (key field)	Select the applicable in- use emission program for this test.	InUseVerificationProg ramSubmission/ TestInformationDetail s or InUseVerificationProg ramSubmission/TestD eleteReportDetails	EmissionProgramIdentifi er	1		A(4)	Enumeration							
IT-5	Verify Test # (key field)	Each separate test for a specific VIN should have a unique test number assigned by Verify.	InUseVerificationProg ramSubmission/ TestInformationDetail s or InUseVerificationProg ramSubmission/TestD	VerifyTestNumber	1		I(7)	Integer							
		Enter the applicable	ramSubmission/												
IT-6	Manufacturer/LOD Test #	manufacturer test number for this test.	TestInformationDetail	LODMfrTestNumberText	1		A(20)	String	1	20					

					Verify Light	t-Duty Data	Requirements						Office of Transportation and Air Quality
17-7	Test Laboratory Code	Enter the two-digit Verify test laboratory code (assigned in Verify's Mfr Profile Information for your company) where this test was conducted	InUseVerificationProg ramSubmission/ TestInformationDetail	Testl aboratorySiteCode	1	1(2)	Integer	1 2					July 2014
			3		1	1(2)	Integer	1 2					
IT-8	Laboratory Name	The name of the test laboratory where testing was performed	InUseVerificationProg ramSubmission/ TestInformationDetail S	TestLaboratoryName	1	A(35)	String						
IT-9	Odometer at start of test	Enter the odometer reading (in miles) at the	InUseVerificationProg ramSubmission/ TestInformationDetail	OdometerStartValue	1	N(7.1)	Decimal	1 7		7	1		
			3	OdometerStartvalue	1		Decimal	1 7		1	1		
IT-10	Pass/Fail/Void (Federal Standards)	Enter the Federal pass/fail/void status of this test.	InUseVerificationProg ramSubmission/ TestInformationDetail s	FederalPassFailIndicator	1		Enumeration						
	Pass/Fail/Void		InUseVerificationProg ramSubmission/ TestInformationDetail	CaliforniaPassFailIndicat									
11-11	(California Standards)	lifornia pass/fail/void stat	u s	Or	1		Enumeration						
IT-12	Test Date	Enter the valid calendar date at the start of this test.	InUseVerificationProg ramSubmission/ TestInformationDetail S	TestDate	1		Date		[1-2]{1}[0 9]{3}[0-1] {1}[0-9]{1 [0-3]{1}[0 9]{1}	}			
IT-13	Test Condition	Select the applicable test condition value for this test.	InUseVerificationProg ramSubmission/ TestInformationDetail s	TestConditionsIdentifier	1		Enumeration						

						Verify Light-Duty Dat	Requirements			Office of Transportation and Air Quality
										July 2014
			ramSubmission/							
IT-14	Test Procedure	Select the applicable test	TestInformationDetail	TestProcedureIdentifier	1		Enumeration			
			3		-		Enumeration			
			InUseVerificationProg							
17.45		Select the applicable fuel	TestInformationDetail				E			
11-15	Fuel Type	type for this test.	S	l est-uel l ypeldentifier	1		Enumeration			
			InUseVerificationProg ramSubmission/							
IT-16	Shift Indicator Light	Was the Shift Indicator	TestInformationDetail	ShiftIndicatorLightUsage		0.1	Enumeration			
11-10	Shint indicator Light	Light used for this test?	5	nuicatoi	0	01	Enumeration			
			InUseVerificationProg							
			ramSubmission/	TransmissionModeIndica						
IT-17	Transmission Mode		S	tor	1		Enumeration			
		If the vehicle has a semi- automatic transmission	InUseVerificationProg ramSubmission/							
IT 10	Transmission Configuration	n enter the mode in which	TestInformationDetail	TransmissionTestConfig		0.1	Enumoration			
11-18	AS Tested	lit was tested.	S	urationidentifier	0	01	Enumeration			

Verify Light-Duty Data Requirements

				1		Vorify Ligh		Pequirements			 1				Office of Transportation and Air Quality
		Select the applicable altitude value at which	InUseVerificationProg ramSubmission/ TestInformationDetail			verny Lign		requirements							July 2014
IT-19	Test Altitude	this test was conducted.	S	TestAltitudeIndicator	1			Enumeration							
IT-20	Dyno Type	Select the applicable value for the type of dynamometer used for this test.	InUseVerificationProg ramSubmission/ TestInformationDetail S	DynamometerTypeIdentif ier	0	01		Enumeration							
IT-21	Road Load HP	Enter the road-load horsepower (HP) for this test. This may also be referred to as dyno horsepower	InUseVerificationProg ramSubmission/ TestInformationDetail	RoadLoadHorsepowerVa	0	0.1	N(3 1)	Floating Decimal Number	3	3	3	1	0	99.9	
	Dunamometer Set	Enter the single roll	InUseVerificationProg ramSubmission/ TestInformationDetail s/			01	14(0,1)	Floating			0	1			
IT-22	Coefficient A	coefficient A for this test.	etDetails	SetCoefficientAValue	0	01	R(7)	Number			6	3	-999.999	999.999	
ІТ-23	Dynamometer Set Coefficient B	Enter the single roll dynamometer set coefficient B for this test.	InUseVerificationProg ramSubmission/ TestInformationDetail s/ DynamoeterSetTarg etDetails	J SetCoefficientBValue	0	01	R(7)	Floating Decimal Number			6	5	-9.99999	9.99999	
	Dynamometer Set	Enter the single roll dynamometer set	InUseVerificationProg ramSubmission/ TestInformationDetail s/ DynamometerSetTarg	SetCoefficientC\/alue	0	0.1	P(7)	Floating Decimal			7	6	-0.00000	0.00000	
IT 24	Dynamometer Target	Enter the single roll dynamometer target	InUseVerificationProg ramSubmission/ TestInformationDetail s/ DynamometerSetTarg		0	0.1		Floating Decimal			6	2	000.000	000.000	
11-23	Dynamometer Target	Enter the single roll dynamometer target	InUseVerificationProg ramSubmission/ TestInformationDetail s/ DynamometerSetTarg		0	0.1		Floating Decimal			0	5	-999.999	0.00000	_
IT-20	Dynamometer Target	Enter the single roll dynamometer target coefficient C for this test.	InUseVerificationProg ramSubmission/ TestInformationDetail s/ DynamometerSetTarg etDetails	TargetCoefficientCValue	0	01	R(7)	Floating Decimal Number			7	6	-9.999999	9.999999	
IT-38	Mileage Category	The mileage category of this test vehicle.	InUseVerificationProg ramSubmission/ TestInformationDetail s or InUseVerificationProg ramSubmission/TestD eleteReportDetails	MileageCategoryIndicato	1		A(1)	Enumeration			·				

															Office of Transportation and Air Quality
															July 2014
		Enter E10 Measurement													
		Running Loss and 2-Day/3-													
		Day Hot Soak + Diurnal emissions only (e.g. for Tier													
		3/LEVIII tests). Method													
		Evaporative tests used for													
	F10 Evaporative Test	the tested Evaporative													
IT-38.5	Measurement Method	i anny.			0	1 per test	A(7)	String							
			InUseVerificationProg												
		The reason for deleting	ramSubmission/	DeletionReportReasonTe											
IT-39	Deletion Reason	the test submission	ils	xt	0	01	A(500)	String	1	500					
	1	T				1	1	1	1		1 1			1	Ļ
			InUseVerificationProg												
			ramSubmission/												
IT-28	Test Result/Emission Name	Select the desired test result name.	TestInformationDetail	TestResultIdentifier	1	0n		Enumeration							
20			In Ise Verification Prog		-		1								1
		Test results. Weighted	ramSubmission/												
	Weighted recult	result if more than 1 bag	TestInformationDetail	Woightod Deputty (alua	1	0 -	N(11 7)	Docimal			11	7	00.00	0000 000000	
11-29	vveignieu result	lis measured.	5/TestResultDetalls	vveignieuResuitvalue		011	IN(II,/)	Decimai	I		11	1	-99.99	3333.3333333	1

						Verify Ligh	t-Duty Data	Requirements							Office of Transportation and Air Quality
			InUseVerificationProg ramSubmission/			,,									July 2014
IT-20	Test Result Linit	Select the applicable	TestInformationDetail	TestPosultI InitIdentifier	1	0 n		Enumeration							
IT-30	In-use Standard (Federal)	The Federal in-use emission standard for the selected emission name.	InUseVerificationProg ramSubmission/ TestInformationDetail s/TestResultDetails	FederalInUseStandardVa	0	0n	N(7,4)	Decimal		[0-9]{1,3} ([\\.][0-9] {1,4})?	7	4	0	999.9999	
IT-32	In-use Standard (California)	Emission standard for the emission listed.	InUseVerificationProg ramSubmission/ TestInformationDetail s/TestResultDetails	CaliforniaInUseStandard Value	0	0n	N(7,4)	Decimal		[0-9]{1,3} ([\\.][0-9] {1,4})?	7	4	0	999.9999	
IT-33	bag 1 result	Bag 1 result of the emission listed in grams/mile. Required for FTP tests.	InUseVerificationProg ramSubmission/ r TestInformationDetail s/TestResultDetails	Bag1ResultValue	0	0n	N(11,7)	Decimal			11	7	0	9999.9999999	
IT-34	bag 2 result	Bag 2 result of the emission listed in grams/mile. Required for FTP tests.	InUseVerificationProg ramSubmission/ r TestInformationDetail s/TestResultDetails	Bag2ResultValue	0	0n	N(11,7)	Decimal			11	7	0	9999.9999999	
IT-35	bag 3 result	Bag 3 result of the emission listed in grams/mile. Required for FTP tests.	InUseVerificationProg ramSubmission/ r TestInformationDetail s/TestResultDetails	Bag3ResultValue	0	0n	N(11,7)	Decimal			11	7	0	9999.9999999	
IT-36	bag 4 result	Bag 4 result of the emission listed in grams/mile. Only required for FTP tests of hybrid vehicles.	InUseVerificationProg ramSubmission/ TestInformationDetail s/TestResultDetails	Bag4ResultValue	0	0n	N(11,7)	Decimal			11	7	0	9999.9999999	
IT-37	IUVP Test Comments	Enter any additional comments for this test. Include any emission standards and emission names that failed. If this test was voided, describe the reason for the void.	InUseVerificationProg ramSubmission/ TestInformationDetail S	TestCommentText	0	01	A(1000)	String 1	1000						

Allowed Values Industry Process Notes/Questio N = New Test Submission Note to CSC: Use the list of process codes for C = Correction Test Submission Note to CSC: Use the list of process codes for C = Correction Test Submission Note to CSC: Use the list of process codes for C = Correction Test Submission D = Delete Test Submission Light-Duty IUVP R = Request Report of Test Submission Light-Duty IUVP	e same for all o discuss mfrs. Manufacture	er Front End	Collecti on Type	Applicable Business Rules
N = New Test Submission Note to CSC: Use the list of process codes f C = Correction Test Submission Verify Light-Duty data D = Delete Test Submission Light-Duty R = Request Report of Test Submission Light-Duty	e same for all o discuss o mfrs. Manufacture	er Front End	XML	
Light-Duty IUVP	Verify	Front End	XML	LD-IUVP-IT-BR001a LD-IUVP-IT-BR003a LD-IUVP-IT-BR003a LD-IUVP-IT-BR003b LD-IUVP-IT-BR004a LD-IUVP-IT-BR005a LD-IUVP-IT-BR005b LD-IUVP-IT-BR013 LD-IUVP-IT-BR024 LD-IUVP-IT-BR025
Light-Duty IUVP	Manufacture	er Front End	XML	LD-IUVP-IT-BR001a LD-IUVP-IT-BR001b LD-IUVP-IT-BR003a LD-IUVP-IT-BR003b
IUVB = Used to meet both EPA and California IUVP requirements IUVE = Used to meet EPA IUVP requirements (mfr) IUVC = Used to meet California IUVP requirements (mfr) IUCB = used to meet EPA and California IUCP requirements (mfr) IUCE = Used to meet EPA IUCP requirements (mfr) IUCC = Used to meet EPA IUCP requirements (mfr) IUCC = Used to meet California IUCP requirements (mfr) R1 = EPA Recall testing Phase 1 (EPA-only) R2 = EPA Recall testing Phase 2 (EPA-only) C1 = California In-Use confirmatory testing Phase 1 (ARB-only) C2 = California In-Use confirmatory testing Phase 2 (ARB-only) UC2 = California In-Use confirmatory testing Phase 2 (ARB-only)	Manufacture	er Front End	XML	LD-IUVP-IT-BR001a LD-IUVP-IT-BR001b LD-IUVP-IT-BR003a LD-IUVP-IT-BR003b
Verify should assign a sequential test numbe light-duty tests submit Verify (cert, fuel econd EPA confirmatory test Light-Duty Light-Duty IUVP EPA in-use, etc.)	a er to all tted to omy, t, IUVP, Verify	Back-end	XML	LD-IUVP-IT-BR001a LD-IUVP-IT-BR001b LD-IUVP-IT-BR006a LD-IUVP-IT-BR006b LD-IUVP-IT-BR006c

						Ve	rify Light-Duty Data Requirements
							, , , ,
	Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IT-BR007
			Note- The test lab name will				
			be pulled from the				
			Manufacturer Info for the				
			specified test lab code. The				
	Light-Duty		XML file that is sent to CARB)	Verify	Front End	XMI	
	Eight-Duty	10 11	AME INC THAT IS SOME TO CARD.)	veniy	1 IOIIL LIIU		
	Light Duty	IUVP		Manufacturer	Front End	XML	
P = Pass E = Eail (describe what Enderal standards/emissions it failed							
in the Test Comments field)							
V = Void (explain reasons why in the comments field)			We are deleting the option for				
NA = not applicable (not certified to Federal standards)	Linkt Duty		"A - Incomplete test (describe	Manufactures	Energy Engl	VAN	
	Light-Duty	IUVP	in the comments field).	Manufacturer	Front End	XIVIL	LD-10VP-11-BR008
P = Pass							
F = Fail (describe what California standards/emissions it failed							
in the Test Comments field)							
NA = not applicable (not certified to California standards)							
	Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IT-BR009
							LD-IUVP-IT-BR012
							LD-IUVP-IT-BR019a
	Light-Duty	IUVP		Manufacturer	Front End	XML	LD-IUVP-IT-BR019b
AR = As received							
AM = After maintenance (Explain what maintenance was							
performed in the Lest Comments field) SS = Set to spec (EPA & APB only)							
	Light-Duty	IUVP		Manufacturer	Front End	XML	

2 = CVS 75 AND LATER (W/O CAN. LOAD) 3 = HWFE (HIGHWAY TEST)					Ve	rify Light-Duty Data Requirements
9 = HWY80 (80 mph Highway Test)						
11 = COLD CO						
15 = SPITBACK TEST 16 = Hot 1/35 A92						
21 = FED FUEL 2 DAY EXH (BUTANE LOAD)						
23 = FED FUEL 2 DAY EVAP (BUTANE) 24 = FED FUEL REFUEL (ORVR) (BUTANE)						
25 = CA FUEL 2 DAY EXH (BUTANE LOAD)						
27 = CA FUEL 2 DAY EVAP (BUTANE LOAD) 31 = FED FUEL 3 DAY EXH (BUTANE LOAD)						
32 - FED FUEL RUNNING LOSS						
34 = FED FUEL 3 DAY EVAP(BUTANE LOAD) 35 = CA FUEL 3 DAY EXH (BUTANE LOAD)						
37 = CA FUEL RUNNING LOSS						
41 = FED FUEL 2 DAY EXH(HEAT TO LOAD)						
43 = FED FUEL 2DAY EVAP(HEAT TO LOAD) 44 = FED REFUEL (ORVR) (HEAT TO LOAD)						
45 = CA FUEL 2 DAY EXH (HEAT TO LOAD)						
47 = CA FUEL 2 DAY EVAP(HEAT TO LOAD) 51 = CA FUEL 50 DEG(E) EXHAUST TEST						
52 = FED FUEL 50 DEG(F) EXHAUST TEST						
60 = AC17 - Manual A/C Controls 61 = AC17 - Automatic A/C Controls						
64 = Evap CARB Fuel Only (Rig) Test 65 = Evap Capitor Blood Test						
66 = Leak Test - Evap Fuel System OBD						
67 = Leak Test - Port Near Canister 68 = Leak Test - Port Near Fuel Pine						
69 = Leak Test - Evap Gas Cap						
72 = CST TWO SPEED IDLE TEST 76 = CST PRECD 2 SPD IDLE (EPA ONLY)						
81 = Charge Depleting UDDS						
84 = Charge Depleting Highway						
85 = Charge Depleting SC03 86 = Charge Depleting 20 Degree E ETP						
87 = A/C Idle Test- Manual A/C						
88 = A/C Idle Fest- Automatic A/C 90 = US06						
95 = SC03						
96 = 0.506 Bag 2 Only	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR020
1 = INDOLENE 30						
6 = EPA UNLEADED GASOLINE 7 = INDUSTRIAL UNLEADED 100 OCTANE						
8 = NUMBER 1 FUEL OIL 9 = CERT DIESEL 300 PPM SULFUR						
10 = NATURAL GAS						
19 = FEDERAL CERT DIESEL 7-15 PPM SULFUR						
22 = SPECIAL UNLEADED 91 RON 23 = CARB PHASE II GASOLINE						
24 = COLD CO REGULAR (CERT) 25 = COLD CO PREMIUM (CERT)						
26 = COLD CO REGULAR (TIER 2) 27 = COLD CO PREMIUM (TIER 2)						
28 = COLD CO E10 REGULAR GÁSOLINE (TIER 3) 29 = COLD CO E10 REEMILIM GASOLINE (TIER 3)						
30 = COLD CO DIESEL 7-15 PPM SULFUR						
31 = METHANOL (CERT M10) 32 = METHANOL (CERT M50)						
33 = METHANOL (CERT M85) 34 = METHANOL (CERT M100)						
36 = E70 (70% ETHANOL 30% EPA UNLEADED GASOLINE) 37 = E10 (10% ETHANOL 90% EPA UNLEADED GASOLINE)						
38 = E85 (85% ETHANOL 15% EPA UNLEADED GASOLINE)						
41 = CNG 42 = LPG						
43 = E10 (10% ETHANOL 90% CAL PHASE II GASOLINE) 44 = E85 (85% ETHANOL 15% CAL PHASE II GASOLINE)						
45 = E70 (70% ETHANOL 30% CAL PHASE II GASOLINE) 46 = CARB LEV3 E10 REGULAR GASOLINE						
47 = CARB LEV3 E10 PREMIUM GASOLINE 48 = TIER 3 E10 REGULAR GASOLINE (9 RVP)						
49 = TIER 3 E10 PREMIUM GASOLINE (9 RVP)						
58 = TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR Only)						
59 = TIER 3 ELU PREMIUM GASOLINE (10 KVP-FFV ORVR Only) 61 = TIER 2 CERT GASOLINE						
62 = ELECTRICITY 71 = E100 (100% ETHANOL)	Light-Duty	IUVP	 Manufacturer	Front End	XML	
Y = Yes						
N = No						
	Light-Duty	IUVP	Manufacturer	Front End	XML	
N = Not applicable						
P = Power						
E = Economy			l			
	Light-Duty	IUVP	Manufacturer	Front End	XML	
A = Automatic mode						
M = Manual mode	Links D. (Manuf	Frank First		
	Light-Duty	Ι ΙΟΥΡ	Manutacturer	⊢ront End	XML	

2 = CVS 75 AND LATER (W/O CAN. LOAD)

				Verify Light-Duty Data Requirements			
L = Low Altitude							
H = High Altitude	Links Dur	11.11/15	Monufereture	Front Fred	VN4		
	Light-Duty		Manufacturer	Front End	XIVIL		
HY = Hydrokinetic (8.65 inch twin rolls)							
E1 = Electric (8.65 inch twin rolls)							
E3 = Electric (48 inch single roll)							
E4 = Electric (24 inch single roll)							
4A = 4WD Electric (48 inch single roll) 4B = 4WD Electric (24 inch single roll)							
4C = 4WD Electric (20 inch twin rolls)							
	Light-Duty	IUVP	Manufacturer	Front End	XML		
	Light-Duty	IUVP	Manufacturer	Front End	XML		
	Light-Duty	IUVP	Manufacturer	Front End	XML		
	Light-Duty	IUVP	Manufacturer	Front End	XML		
	Linkt Dut :			Energy Engl	VAN		
	Light-Duty	IUVP	Manufacturer	Front End	XIVIL		
	Light Duty		Manufacturar	Front End	VM		
	Light-Duty	IUVP	Manufacturer	FIOILEIU	XIVIL		
	Light Duty		Manufacturor	Front End	VMI		
	Light-Duty	1075	Manufacturer	FIOILEIU			
	Light Duty		Manufacturor	Front End	VMI		
		1078	wanulacturer				
						LD-IUVP-IT-BR001a	
						LD-IUVP-IT-BR001b	
H = High mileage (minimum of 50,000 miles)						LD-IUVP-IT-BR003b	
L = Low mileage (minimum of 10,000 miles)	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR018	
Office of Transportation and Air Quality July 2014

ACTUAL = Actual Total Hydrocarbon Equivalent Measurement (with speciation) CALC = Calculated (1.08 x FID Total Hydrocarbons) EDLEPA = Actual ED Wide Secretation (FPA Only)	Light Duty		Manufacturer/	Front End	YMI	New BRs: If the Fuel Type (IT-15) equals '46' (CARB LEV3 E10 REGULAR GASOLINE), '47' (CARB LEV3 E10 PREMIUM GASOLINE), '48' (TIER 3 E10 PREMIUM GASOLINE), or '49' (TIER 3 E10 PREMIUM GASOLINE) AND the Test Procedure (IT-14) equals '23' (FED FUEL 2 DAY EVAP (BUTANE), '27' (CA FUEL 2 DAY EVAP (BUTANE LOAD)), '32' (FED FUEL RUNNING LOSS), '34' (FED FUEL 2 DAY EVAP(BUTANE LOAD), '37' (CA FUEL RUNNING LOSS'), '38' (CA FUEL 3 DAY EVAP (BUTANE LOAD), '43' (FED FUEL 2DAY EVAP(BUTANE LOAD)), '37' (CA FUEL RUNNING LOSS'), '38' (CA FUEL 3 DAY EVAP (BUTANE LOAD), '43' (FED FUEL 2DAY EVAP(BET TO LOAD)), '37' (CA FUEL RUNNING LOSS'), '38' (CA FUEL 3 DAY EVAP (BUTANE LOAD), '43' (FED FUEL 2DAY EVAP(HEAT TO LOAD)), '37' (CA FUEL 2 DAY EVAP(HEAT TO LOAD)), '37' (CA FUEL 2 DAY EVAP(HEAT TO LOAD)), '37' (TIER 3 E10 PREMIUM GASOLINE (D RNP-FFV ORVR Only)), then E10 Evaporative Test Measurement Method (IT-38.5) is required. If the Submitting Manufacturer Code is not 'LOD' or 'EPA' then E10 Evaporative Test Measurement Method (IT-38.5) must equal the value of E10 Evaporative Test Measurement Method (EV-32), or, must equal FID-EPA' (Actual FID w/o Speciation (EPA Only)). LD-IUVP-IT-BR015
HD-EPA = Actual HD w/o speciation (EPA Only)	Light Duty	IUVP	LOD	Front End	XML	
	Light-Duty	IUVP	Manufacturer	Front End	XML	
HC-TOTAL (Total Hydrocarbon) HC-TOTAL EQUIV (Total Hydrocarbon equivalent - Evap only) CO2 (Carbon Dixoide) CO2 (Carbon Dixoide) CO2 (Carbon Dixoide) CO2 (Carbon Dixoide) CO2 (Carbon Dixoide) CO2 (Carbon Dixoide) CO3 (Carbon Monovade) CO4 (Combined Carbon-Related Exhaust Emissions) COMB-CREE (Corbon-Related Exhaust Emissions) COMB-CREE (Corbon-Related Exhaust Emissions) COMB-CREE (Corbon-Related Exhaust Emissions) COMB-CREE (Corbonied Carbon-Related Exhaust Emissions) COMB-CREE (Corbonied Carbon-Related Exhaust Emissions) COMB-CREE (Corbonied Carbon-methane Hydrocarbon (Combined Carbon-methane Hydrocarbon equivalent) NMOC (Non-methane Hydrocarbon) CMM-CE (Organic material non-methane Hydrocarbon equivalent) NMOC (Non-methane Hydrocarbon-Nitrogen Oxides for US06 or SC03) HC-MM-NOX (SFTP Composite Non-methane Hydrocarbon-Nitrogen Oxides) CO-COMP (SFTP Composite Carbon Monoxide) NMOC+NOX (Non-methane Hydrocarbon-Nitrogen Oxides) CO-COMP (SFTP Composite Non-methane Hydrocarbon-Nitrogen Oxides) NMOC+NOX (Norm-methane Hydrocarbon) FE BAG 2 (Bag 2 Fuel Economy) FE BAG 2 (Bag 1 Fuel Economy) FE BAG 3 (Bag 1 Carbon Dixode) CO2 BAG 2 (Bag 2 Carbon Dixode) NZO (Nitrous Oxide) STRACK (Diversioned Karbon Ingants) STRACK (Springen Eras Encore (Carbon Raing) DT-ASCR (Diversioned Karbon Ingants) STRACK (Carbon Carbon Ingants) STRACK (Carbon Carbon Ingants) STRACK (Springen Eras Encore (Carbon Notes) CARD-A - Effective Leak Dameter (Inches) LEAK-OSA CAP - Eack Dameter (Inches) LEAK-OSA	Light-Duty	IUVP	Manufacturer	Front End	XML	New BRs: If Test Procedure (IT-14) is not equal to '3' (HWFE Highway Test) then Test Result/Emission Name (IT-28) cannot equal 'COMB-CREE' or 'COMB-OPT-CREE'. If Model Year (IV-8) of the IUVP test vehicle is >= 2012 and Test Procedure (IT-14) is equal to '3' (HWFE Highway Test) then Test Result/Emission Name (IT-28) must include 'COMB-CREE' or 'COMB-OPT-CREE'. If the Fuel Type (IT-15) equals '46' (CARB LEV3 E10 REGULAR GASOLINE), '47' (CARB LEV3 E10 PREMIUM GASOLINE), '74' (CARB LEV3 E10 PREMIUM RUNNING LOSS), '34' (FED FUEL 12) AND the Test Procedure (IT-14) equals '23' (FED FUEL 2 DAY EVAP (BUTANE), '27' (CA FUEL 2 DAY EVAP (BUTANE LOAD), '32' (FED FUEL MINNING LOSS), '34' (FED FUEL 3 DAY EVAP(BUTANE LOAD)), '37' (CA FUEL RUNNING LOSS), '38' (CA FUEL 3 DAY EVAP (BUTANE LOAD), '43' (FED FUEL 20AY EVAP(HEAT TO LOAD)), '47' (CA FUEL 2 DAY EVAP(HEAT TO LOAD)), '58' (TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR ONIY)), or '59' (TIER 3 E10 PREMIUM GASOLINE (10 RVP-FFV ORVR ONIY), then Test Result/Emission Name (IT-28) must include 'HC-TOTAL-EQUIV'. LD-IUVP-IT-BR021 LD-IUVP-IT-BR023 LD-IUVP-IT-BR023 LD-IUVP-IT-BR023 LD-IUVP-IT-BR021
	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR028

					Ve	rify Light-Duty Data Requirements
g/m = grams per mile g/t = grams per test (applies to evaporative tests) mpg = miles per gallon g/g = grams per gallon (dispensed) for ORVR tests Ah = amp-hours Wh = watt-hours Mi = miles V = voltage in = inches cc/min = cubic centimeters per minute N/A = not applicable	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR029
	Light-Duty	IUVP	Manufacturer	Back-end	XML	
	Light-Duty	IUVP	Manufacturer	Back-end	XML	
	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR016
	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR016
	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR016
	Light-Duty	IUVP	Manufacturer	Front End	XML	LD-IUVP-IT-BR017
						LD-IUVP-IT-BR010
	Light-Dutv	IUVP	Manufacturer	Front End		LD-IUVP-IT-BR014

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2014-July-21

These equations are used by Verify to calculate CREE and Optional CREE if they are selected as Test Result/Emission Name in Test Information.

Gasoline - 40 CFR 600.113-12(h)(2)

CREE 40 CFR 600.113-12(h)(2)(i) = [(CWF / 0.273) * **HC**] + (1.571 * CO) + CO2 OptCREE 40 CFR 600.113-12(h)(2)(ii) = [(CWF / 0.273) * **NMHC**] + (1.571 * CO) + CO2 + **(298 * N2O) + (25 * CH4)**

Diesel - 40 CFR 600.113-12(i)(2)

CREE 40 CFR 600.113-12(i)(2)(i) = (3.172 * HC) + (1.571 * CO) + CO2 OptCREE 40 CFR 600.113-12(i)(2)(ii) = (3.172 * NMHC) + (1.571 * CO) + CO2 + (298 * N2O) + (25 * CH4)

Methanol - 40 CFR 600.113-12(j)(2)

CREE 40 CFR 600.113-12(j)(2)(i) = [(CWF / 0.273) * HC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + CO2 OptCREE 40 CFR 600.113-12(j)(2)(ii) = [(CWF / 0.273) * NMHC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + CO2 + (298 * N2O) + (25 * CH4)

CNG - 40 CFR 600.113-12(k)(2)

CREE 40 CFR 600.113-12(k)(2)(i) = [(CWFNMHC / 0.273) * NMHC] + (1.571 * CO) + CO2 + (2.743 * CH4) OptCREE 40 CFR 600.113-12(k)(2)(ii) = [(CWFNMHC / 0.273) * NMHC] + (1.571 * CO) + CO2 + (298 * N2O) + (25 * CH4)

Ethanol - 40 CFR 600.113-12(I)(2)

 CREE
 40 CFR 600.113-12(l)(2)(i)
 = [(CWF / 0.273) * HC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + (1.911 * C2H5OH) + (1.998 * C2H4O) + CO2

 OptCREE
 40 CFR 600.113-12(l)(2)(ii)
 = [(CWF / 0.273) * NMHC] + (1.571 * CO) + (1.374 * CH3OH) + (1.466 * HCHO) + (1.911 * C2H5OH) + (1.998 * C2H4O) + CO2

Notes:

For HC, use the Verify name of HC-TOTAL Methane = CH4 Methanol = CH3OH Ethanol = C2H5OH Formaldehyde = HCHO Acetaldehyde = H3C2HO or C2H4O

Items in bold above are the items that are different between the CREE and Opt-CREE equations for each fuel type.

For each emission name, use the rounded test result (CO2 rounded to whole number) with the 120k DF applied if applicable (if aged components there may not be DFs). The final CREE/Opt-CREE is then rounded to a whole number.

49 CFR 531.5	& 533.5, CAFE Standards	49 C	R 531.5 & 533.5, CAFE Standards	86 CFR 1818-12, GHG Standards		
Reformed Target FE = Truck 2008-2011)	$\frac{1}{\frac{1}{A} + (\frac{1}{B} - \frac{1}{A}) \frac{e^{(Footprint - C)/D}}{\frac{1}{1 + e^{(Footprint - C)/D}}}$	Reformed Target FE (2012 +)	$\frac{1}{\text{Min (Max (C x Footprint + D, \frac{1}{A}), \frac{1}{B})}$	Target CO ₂ = A x Footprint + B (2012 +)		
(Car 2011 only) Per regulation: e = 2.718		(2012-1)		If Footprint <= 41 SqFt, Target $CO_2 = C$ If Footprint > 56 SqFt, Target $CO_2 = D$		

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality

Date	2014-September 26				
Date of Change	Description	Data Element	Version #	Enhancement to Baseline (Y/N)	Comments
CAFÉ					Items in yellow may require analysis to confirm baseline enhancements that may affect project cost and/or timeline
11/23/2010	Added "/GHG" to multiplicity column	CA-3		N	
11/23/2010	Added "/GHG" to multiplicity column	CA-0		N	
11/23/2010	Added "/GHG" to multiplicity column	CA-1		N	
11/23/2010	Changed DE name from "CAFE Compliance Category to "CAFE/GHG Compliance Category"; added "/GHG" to description, multiplicity; removed "DP = Domestic Passenger Vehicles IP = Import Passenger Vehicles" from allowed values and added "PV = Passenger Vehicles";	CA-4		N	
11/23/2010	New DE "GHG Exempt Indicator"	CA-127			
11/23/2010	New DE " GHG Calculation Method"	CA-128			
11/23/2010	New DE "For OCREE calculations, should N2O emissions always default to .010gpm?"	CA-129			OPT-CREE N2O Default Indicator
11/23/2010	Added "/GHG" to element name, description, multiplicity	CA-4.5		N	
11/23/2010	New DE "EPA Calculated Official Model Year GHG Production Units"	CA-130			
11/23/2010	New DE "EPA Calculated Official Model Year GHG TLAAS Production Units"	CA-131			
11/23/2010	Changed DE name from "EPA Official Model Year Truck CAFE Production Units" to "EPA Calculated Official Model Year Truck CAFE Production Units"; Added new BR "Required if CAFE/GHG Compliance Category = Light Truck"	CA-53		N	
11/23/2010	Changed DE name from "EPA Official Model Year Domestic Passenger Vehicle CAFE Production Units" to "EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units"; Added BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-54		N	
11/23/2010	Changed DE name from "EPA Official Model Year Import Passenger Vehicle CAFE Production Units" to "EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units", Added new BR: Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-55		N	
11/23/2010	New DE "Manufacturer Calculated Official Model Year GHG Production Units"	CA-132			
11/23/2010	New DE "Manufacturer Calculated Official Model Year GHG TLAAS Production Units"	CA-133			
11/23/2010	Changed DE name from "Manufacturer Official Model Year Truck CAFE Production Units" to "Manufacturer Calculated Official Model Year Truck CAFE Production Units", Added: Parent's name, XML Tag, new BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-50		N	
11/23/2010	Changed DE Name from "Manufacturer Official Model Year Domestic Passenger Vehicle CAFE Production Units" to "Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units"; Added Parent's name, XML Tag, new BR: Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-51		N	
11/23/2010	Changed DE Name from "Manufacturer Official Model Year Import Passenger Vehicle CAFE Production Units" to "Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units", Added Parent's name, XML Tag, new BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-52		N	
11/23/2010	New DE "EPA Calculated Baseline Average GHG	CA-134			

11/23/2010	New DE " EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal"	CA-135		Verif	y Light-Duty Data Requirements
11/23/2010	Changed DE name from "EPA Baseline Truck CAFE Unrounded 4 Decimal" to "EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal"; Changed min. value from 1 to 0, new BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-59	N		
11/23/2010	Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal", Added new BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-60	N		
11/23/2010	Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal; new BR added: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-61	N		
11/23/2010	New DE "EPA Calculated Baseline Average GHG Rounded Whole Number"	CA-136			
11/23/2010	New DE "EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number"	CA-137			
11/23/2010	Changed DE name from "EPA Baseline Truck CAFE Rounded 1 Decimal" to "EPA Calculated Baseline Truck CAFE Rounded 1 Decimal"; Changed Basic Data Type from "N(4,1) to N(5,1)"; Changed Min Value from 1 to 0; Added "Light Duty" to Industry; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-63	N		
11/23/2010	Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-66	N		
11/23/2010	Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-67	N		
11/23/2010	Changed DE name from "EPA Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-70	N		
11/23/2010	Changed DE name from "EPA Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-71	N		
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal"	CA-138			
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal"	CA-139			
11/23/2010	Changed DE name from "Manufacturer Baseline Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed min. value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-56	N		
			-		

11/23/2010	Changed DE name from "Manufacturer Baseline Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal", Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-57	Ν	Verif	y Light-Duty Data Requirements
11/23/2010	Changed DE name form "Manufacturer Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-58	Ν		
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG Rounded Whole Number"	CA-140			
11/23/2010	New DE "Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number"	CA-141			
11/23/2010	Changed DE name from "Manufacturer Baseline Truck CAFE Rounded 1 Decimal" to "Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal"; Added Parent's Name, XML Tag; Changed min. value from 1 to 0; New BR: "Required i CAFE/GHG Compliance Category = Light Truck"	CA-62	Ν		
11/23/2010	Changed DE name from "Manufacturer Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; Added Parent's Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-64	N		
11/23/2010	Changed DE name from "Manufacturer Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal";	CA-65	Ν		
11/23/2010	Changed DE name from "Manufacturer Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimati ⁷ to "Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimati ⁷ , Added Parent ⁵ Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-68	N		
11/23/2010	Changed DE name from "Manufacturer Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal", Added Parent's Name, XML Tag, New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-69	N		
11/23/2010	New DE "EPA Calculated Final Average GHG Unrounded 4 Decimal"	CA-142			
11/23/2010	New DE "EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal"	CA-143			
11/23/2010	Changed DE name from "EPA Final Truck CAFE Unrounded 4 Decimal" to "EPA Calculated Final Truck CAFE Unrounded 4 Decimal"; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-75	Ν		
11/23/2010	Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-76	Ν		

11/23/2010	Changed DE name from "EPA Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-77	Ν	Verif	y Light-Duty Data Requirements
11/23/2010	New DE "EPA Calculated Final Average GHG Rounded Whole Number"	CA-144			
11/23/2010	New DE "EPA Calculated Final Average GHG TLAAS Rounded Whole Number"	CA-145			
11/23/2010	Changed DE name from "EPA Final Truck CAFE Rounded 1 Decimal" to "EPA Calculated Final Truck CAFE Rounded 1 Decimal"; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-79	N		
11/23/2010	Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-82	Ν		
11/23/2010	Changed DE name from "EPA Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal"; New BR: "Required if CAEFE/CHG Compliance Category = Passenger Vehicle"	CA-83	N		
11/23/2010	Changed DE name from "EPA Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-86	N		
11/23/2010	Changed DE name from "EPA Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "EPA Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; New BR: "Required if CAFE/CHG Compliance Category = Passenger Vehicle"	CA-87	Ν		
11/23/2010	New DE "Manufacturer Calculated Final Average GHG Unrounded 4 Decimal"	CA-146			
11/23/2010	New DE "Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal"	CA-147			
11/23/2010	Changed DE name from "Manufacturer Final Truck CAFE Unrounded 4 Decimal" to "Manufacturer Calculated Final Truck CAFE Unrounded 4 Decimal"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GCHG Compliance Category = Light Truck"	CA-72	Ν		
11/23/2010	Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal", Added Parent's Name, XML Tag: New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-73	Ν		
11/23/2010	Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHC Compliance Category = Passenger Vehicle"	CA-74	N		
11/23/2010	New DE "Manufacturer Calculated Final Average GHG Rounded Whole Number"	CA-148			
11/23/2010	New DE "Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number"	CA-149			

11/23/2010	New DE "Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal";	CA-150		this DE replaced CA-78 from the previols if spreadsheet	y Light-Duty Data Requirements
11/23/2010	Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal", Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-80	N		
11/23/2010	Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 4 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-81	N		
11/23/2010	Changed DE name from "Manufacturer Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal", Added Parents Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-84	N		
11/23/2010	Changed DE name from "Manufacturer Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal" to "Manufacturer Calculated Final Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-85	N		
11/23/2010	New DE "EPA Official Average GHG Grams Per Mile"	CA-151			
11/23/2010	New DE "EPA Official Average GHG TLAAS Grams Per Mile"	CA-152			
11/23/2010	Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-91	N		
11/23/2010	New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-92	N		
11/23/2010	New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-93	N		
11/23/2010	New DE "Manufacturer Calculated Official Average GHG Grams Per Mile"	CA-153			
11/23/2010	New DE "Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile"	CA-154			
11/23/2010	Changed DE name from "Manufacturer Official Truck CAFE Miles Per Gallon" to "Manufacturer Calculated Official Truck CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; Changed Min Value from 1 to 0; New BR: "Required if CAFE/GHG Compliance Category = Light Truck"	CA-88	Ν		
11/23/2010	Changed DE name from "Manufacturer Official Domestic Passenger Vehicle CAFE Miles Per Gallon" to "Manufacturer Calculated Official Domestic Passenger Vehicle CAFE Miles Per Gallon", Added Parent's Name, XML Tag, New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-89	Ν		
11/23/2010	Changed DE name from "Manufacturer Official Import Passenger Vehicle CAFE Miles Per Gallon" to "Manufacturer Calculated Official Import Passenger Vehicle CAFE Miles Per Gallon"; Added Parent's Name, XML Tag; New BR: "Required if CAFE/GHG Compliance Category = Passenger Vehicle"	CA-90	Ν		
11/23/2010	Noted that Parent's name and XML tag are missing	CA-11	N		

				Verit	V Light-Duty Data Requirements
11/23/2010	Basic data type changed to "A(12)"; change to fixed string; Min/Max lengths changed to 12 and 12; Min value changed to 4, Max value deleted;	CA-14.1	N		
11/23/2010	New DE "CAFE Domestic/Import Indicator"	CA-155			
11/23/2010	New DE "GHG TLAAS Indicator"	CA-156			
11/23/2010	New DE "GHG Advanced Technology Indicator"	CA-157			
11/23/2010	New DE "Footprint Final Model Year GHG Production Units"	CA-158			_
11/23/2010	New DE "EPA Calculated Footprint Target GHG Value (grams per mile)"	CA-159			
11/23/2010	Deleted entire DE	CA-21			-
11/23/2010	Changed DE name from "EPA Footprint Target FE Value (miles per gallon)" to "EPA Calculated Footprint Target FE Value (miles per gallon)";	CA-21.5	N		
11/23/2010	Deleted entire DE	CA-21.7			-
11/23/2010	New DE "Manufacturer Calculated Unrounded GHG Standard"	CA-160			
11/23/2010	New DE "EPA Calculated Unrounded GHG Standard"	CA-161			
11/23/2010	New DE "EPA Calculated Unrounded GHG Standard Discrepancy Value"	CA-162			
11/23/2010	New DE "EPA Calculated Final GHG Standard"	CA-163			
11/23/2010	New DE "Manufacturer GHG Comments"	CA-164			
11/23/2010	Changed Min. Value from "0.0001" to "0.0000"	CA-22	N		
11/23/2010	Changed Min. Value from "0.0001" to "0.0000"	CA-22.3	N		
11/23/2010	Changed Min. Value from "0.0001" to "0.0000"	CA-22.7	N		
11/23/2010	Added Parent's name, XML tag	CA-25.1	N		
11/23/2010	New DE "EPA Calculated Baseline Model Type City GHG Value 1 decimal"	CA-165			
11/23/2010	New DE "EPA Calculated Baseline Model Type Highway GHG Value 1 decimal"	CA-166			
11/23/2010	New DE "EPA Calculated Baseline Model Type Combined GHG Value 1 decimal"	CA-167			
11/23/2010	New DE "EPA Calculated Baseline Model Type Combined GHG Value Whole Number"	CA-168			
11/23/2010	New DE "EPA Calculated Final Model Type City GHG Value 1 decimal"	CA-169			
11/23/2010	New DE "EPA Calculated Final Model Type Highway GHG Value 1 decimal"	CA-170			
11/23/2010	New DE "EPA Calculated Final Model Type Combined GHG Value 1 decimal"	CA-171			
11/23/2010	New DE "EPA Calculated Final Model Type Combined GHG Value Whole Number"	CA-172			
11/23/2010	New DE "EPA Calculated Model Type GHG Production Units"	CA-173			
11/23/2010	New DE "EPA Calculated Baseline Base Level City GHG Value 1 decimal"	CA-174			
11/23/2010	New DE "EPA Calculated Baseline Base Level Highway GHG Value 1 decimal"	CA-175			
11/23/2010	New DE "EPA Calculated Baseline Base Level Combined GHG Value 1 decimal"	CA-176			
11/23/2010	New DE "EPA Calculated Final Base Level City GHG Value 1 decimal"	CA-177			
11/23/2010	New DE "EPA Calculated Final Base Level Highway GHG Value 1 decimal"	CA-178			
11/23/2010	New DE "EPA Calculated Final Base Level Combined GHG Value 1 decimal"	CA-179			
11/23/2010	New DE "EPA Calculated Base Level GHG Production Units"	CA-180			
11/23/2010	New DE "EPA Calculated Baseline Configuration City GHG Value 1 decimal"	CA-181			
11/23/2010	New DE "EPA Calculated Baseline Configuration Highway GHG Value 1 decimal"	CA-182			
11/23/2010	New DE "EPA Calculated Baseline Configuration Combined GHG Value 1 decimal"	CA-183			
11/23/2010	New DE "EPA Calculated Final Configuration City GHG Value 1 decimal"	CA-184			
11/23/2010	New DE "EPA Calculated Final Configuration Highway GHG Value 1 decimal"	CA-185			
11/23/2010	New DE "EPA Calculated Final Configuration Combined GHG Value 1 decimal"	CA-186			

11/23/2010	New DE "EPA Calculated Configuration GHG Production Units"	CA-187		Verif	y Light-Duty Data Requirements
11/23/2010	Added DE name (missing from previous DR spreadsheet) "EPA Calculated Baseline Configuration City FE Value 4 decimal"	CA-110	N		
11/23/2010	Deleted Min. and Max values; edited enumeration values;	CA-31	N		
11/23/2010	New DE "EPA Calculated Baseline Subconfiguration City GHG Value 1 decimal"	CA-188			
11/23/2010	New DE "EPA Calculated Baseline Subconfiguration Highway GHG Value 1 decimal"	CA-189			
11/23/2010	New DE "EPA Calculated Final Subconfiguration City GHG Value 1 decimal"	CA-190			
11/23/2010	New DE "EPA Calculated Final Subconfiguration Highway GHG Value 1 decimal"	CA-191			
11/23/2010	New DE "EPA Calculated Subconfiguration GHG Production Units"	CA-192			
11/23/2010	Deleted entire DE	CA-119			
11/23/2010	Deleted entire DE	CA-122			
11/23/2010	Added Parent's name, XML tag	CA-124	N		
11/23/2010	Added Parent's name, XML tag	CA-125	N		
11/23/2010	Added Parent's name, XML tag	CA-126	N		
11/23/2010	Added Parent's name, XML tag	CA-24	N		
11/23/2010	Now DE "Monufacturer Subconfiguration Final	CA-34	IN		
11/23/2010	Model Year GHG Production Units"	CA-193			
11/23/2010	Added Parent's name, XML tag	CA-32	N		
2/9/2011	Updated all BR numbers with applicable JIRA numbers				
4/28/2011	Hide the business rule text column	All DE's			
6/6/2011	Change enumeration from OCREE to Opt-Cree	S-9, D-10, E-9			
6/8/2011	Change enumeration from OCREE to OPT-CREE	S-9, D-10, E-9			
6/21/2011	Changed Element name to 'OPT-CREE N2O Default Indicator'	D-10			
6/21/2011	Changed BR from LD-FE-CA-BR039 to LD-FE- CA-BR156	AC-20			
6/21/2011	Deleted BR LD-FE-CA-BR109	AC-142			
9/13/2011	Changed Min value from 1 to 0	CA-158 & CA-20	Y		
10/7/2011	Updated Parent Tag, Collection Point, Collection	CA-11.5, 12,13,14.5			
10/7/2011	Updated long name	CA124, 20			
10/7/2011	Updated the cardinality from true to false	CA-26,27,28,29,29.5,30,31			
1/20/2012	Added new DE	CA-194, 195, 196, 197 and 198			
1/20/2012	Updated the XML	CA-162			
1/24/2012	Added new DE	CA-195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, and 206			
1/24/2012	Edited Parent's Name and XML	CA-158			
1/24/2012	Edited Long Name, Description and XML	CA-22.3			
1/24/2012	Edited Long Name and Description	CA-22.5 and 22.7			
3/22/2012	Changed Parent's Name from "FuelEconomyCAFESubmission/FuelEconomyCA FEDetails/EPAGeneratedFuelEconomyCAFEDeta ils/EPAReformedStandardDetails" to "FuelEconomyCAFESubmission/FuelEconomyCA FEDetails/ReformedStandardDetails"	CA-199			
3/29/2012	Added New EPA Calculated Fields. Assigned data element numbers for existing EPA Calculated Fields.	CA-207, CA-208, CA-209, CA-210, CA-210.5, CA- 211.5, CA-212			
4/12/2012	Added XML tag	CA-200, 201, 202, 204, 205, 206, 207			
4/12/2012	Added Parent's Name	CA-207			
4/12/2012	Updated Parent's name, XML tag	CA-22, 22.5, 22.7, 53, 54, 55, 91, 92, 93, 130, 131, 151, 152, 161, 162, 163, 200, 201, 202, 204, 205, 206			
4/12/2012	Updated Min value and Max value	CA-22.7, 202, 206			
4/12/2012	Updated data element number from CA-211 to CA-196 to match the database and added Parent's name and XML tag	CA-196			

4/12/2012	Updated data element number from CA-211.5 to CA-197 to match the database and added Parent's name and XML tag	CA-197		Verif	y Light-Duty Data Requirements
4/12/2012	Updated data element number from CA-212 to CA-198 to match the database and added Parent's name and XML tag	CA-198			
4/12/2012	Updated to change the Data Element Name	CA-10			
4/12/2012	Removed data elements	CA-11, 59, 60, 61, 63, 66, 67, 70, 71, 75, 76, 77, 79, 82, 83, 86, 87, 98, 99, 100, 101, 106, 107, 108, 113, 114, 115, 120, 121, 134, 135, 136, 137, 142, 143, 144, 145, 169, 170, 171, 172, 177, 178, 179, 184, 185, 186, 190, 191, 203			
4/12/2012	Assigned data element numbers to CA-207 - 222 to the EPA Calculated Baseline/Final Domestic/Import Passenger Vehicle CAFE SFITW/FEITW data elements as indicated in the database	CA-207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, and 222			
4/12/2012	Re-assigned data element numbers for CA-207, 208, 209, 210, and 210.5 to data element numbers 223, 224, 225, 226, and 226.5	CA-223, 224, 225, 226, 226.5			
4/17/2012	Removed data element	CA-14			
4/23/2012	Changed "GreenhouseGas" to "GHG" in Parent's name	CA-161, 162, 163			
4/23/2012	Changed "TemporaryLeadtimeAllowanceAlternativeStandar d" to "GHGTLAAS" in Parent's name	CA-196, 197, 198			
4/23/2012	Changed "GreenhouseGas" to "GHG" in XML tag	CA-130, 151, 161, 162, 163, 196, 197, 198			
4/23/2012	Changed "TemporaryLeadtimeAllowanceAlternativeStandar d" to "GHGTLAAS" in XML tag	CA-131, 152			
4/23/2012	Moved "CAFE" within XML tag	CA-53, 54, 55, 91, 92, 93			
6/1/2012	Updated Applicable Business Rules for Emergency Release 10.0.3	CA-34, CA-35			
9/18/2012	Changed Required to "FALSE"	CA-4.5			
10/1/2012	Added new data elements	CA-227, CA-228			
10/2/2012	Updated Applicable Business Rules	CA-0, CA-1, CA-4, CA-4.5, CA-227, CA-228			
10/17/2012	Added new data elements	CA-229, CA-230, CA-231, CA-232, CA-233, CA-234, CA-235, CA-236, CA-237			
2/1/2013	Updated Applicable Business Rules	CA-3, CA-14.5, CA-35, CA-39, CA-41, CA-227			
FE Label					
11/23/2010	Added Parent's name, XML tag	GL-78.2	N		
11/23/2010	Added Parent's name, XML tag	GL-79.1	 N		
11/23/2010	Added Parent's name, XML tag Added Parent's name, XML tag; Added new allowed value "CS-3C = Charge Sustaining 3-	GL-79.2 GL-79.3	N		
11/23/2010	cycle" Edited allowed values field	GL-123	N		
11/23/2010	Added "GL-130.5 continued" DE; Updated Validation rules	GL-130.5	N		
11/23/2010	Added Parent's name, XML tag	GL-173.1	N		
2/9/2011	Updated all BR numbers with applicable JIRA numbers				
2/24/2011	Added NEW GL-130.2	GL-130.2	N		
4/13/2011	Updated multiplicity	GL-81			
4/13/2011	Changed Collection Type	GL-130			
4/13/2011	Changed Collection Type	GL-130.5			
4/15/2011	Updated enumeration list from KW-HR100 to KW- HR/100	GL-90			
4/28/2011	Updated the multiplicity	GL-81			
4/28/2011	Add 'HYD' as a new enumeration	GL-13.5.3			
4/28/2011	Hide the business rule text column	All DE's			
4/28/2011	Marked as Deleted	GL-7			
4/28/2011	Marked as Deleted	GL-8			

4/28/2011	Marked as Deleted	GL-9		Verif	y Light-Duty Data Requirements
12/16/2011	Updated enumeration list. Updated text for option 4, Deleted option 5	GL-106			
1/6/2012	Updated FE Label section with requirements added in VERIFY-11292 Excel attachment. Also edited the collection point for data requirements suggested in the Word attachment to this issue	All DE's		See https://wush.net/confluence/verify/display/ GHGLDP2/Schema+changes+for+FE+Lab el for more details on XML Schema changes implemented.	
1/19/2012	Updated multiple data requirements in the FE Label section with new Parent's Name, XML Tag, and Long Name	Multiple DE's			
1/19/2012	Removed the XML tag	GL-120.1, 120.2, 120.3, 120.4, 120.5, 120.6, 125.0.1, 125.0.2, 125.0.4, and 125.0.5			
1/19/2012	Re-added	GL-168, 169, 170 and 171			
1/26/2012	Updated all instances of "KW-HR100" or "KW- HR/100MILES" to KW-HR/100Miles	GL-85, 90, 100, 101 and 102			
2/3/2012	Updated data requirements only to change "Value" to "Number" in the XML tag	GL-219, 220, and 221			
2/3/2012	Updated data requirements only to change update the Parent's Name appropriately	GL-92			
2/3/2012	Updated data requirements only to add "Only" to the XML tag	GL-200			
2/3/2012	Added Parent's name, XML tag	GL-204			
2/3/2012	Updated Long name	GL-236			
2/6/2012	Changed "MPG" to "FE" in the Long Name	GL-85, 100, 101, and 102			
2/6/2012	Changed "MPG" to "FuelEconomy" in the XML tag	GL-85			
2/6/2012	Changed "CarbonDioxide4Number" to "CarbonDioxideNumber" in the XML tags.	GL-235, 236, 201, 240, 241, and 242			
2/6/2012	Changed data element number for "Fuel Cost Model Year" from "GL-176" to "GL-175.1" to resolve a data element conflict with "Release Date"	GL-175.1			
3/27/2012	Removed XML Tag and Parent's Name	GL-240, 241, 242, 215, 222, 237, 238, 239, 113.5, 113.6, 113.7, 116.5, 116.6, 116.7, 249, 250, 251, 252, 253, 254			
3/29/2012	Added New EPA Calculated Fields	GL-277, GL-278			
4/24/2012	Updated Long Name to "Stop/Start Indicator". Removed enumeration value 'L' (Yes, but with lock-out features)	GL-75			
6/1/2012	Updated Applicable Business Rules for Emergency Release 10.0.3	GL-13.5, GL-126, GL-207, GL-214			
8/2/2012	Added New Fields	GL-279, 280			
8/2/2012	Added Parent's Name and XML tag	GL-215, 222			
10/1/2012	Added new data element	GL-281			
2/12/2013	Updated Applicable Business Rules	GL-79			
7/15/2013	Corrected data element name	GL-73			
9/26/2014	Renamed data element to "Litmus Bypass Indicator"	GL-200			
Road Load					
11/23/2010	Added Parent's name	RL-1	N		
11/23/2010	Added Parent's name, XML tag	RL-1.5	N		
11/23/2010	Added Parent's name, XML tag	RL-1.6	N		
11/23/2010	Added Parent's name, XML tag	RL-2	N		
11/23/2010	Added Parent's name	RL-3	N		
11/23/2010	Added Parent's name	RL-4	N		
11/23/2010	Added Parent's name	RL-5	N		
11/23/2010	Added Parent's name, XML tag	RL-5.1	N		
11/23/2010	Added Parent's name, XML tag	RL-6	N		
11/23/2010	Added Parent's name; Changed max value from 100 to 99.999	RL-7	N		
11/23/2010	Changed collection type from "assigned" to "Pre- existing"	RL-14	N		
11/23/2010	Added Parent's name	RL-15	N		
11/23/2010	Added Parent's name	RL-16	N		
11/23/2010	Added Parent's name, XML tag	RL-17	N		
11/23/2010	Added Parent's name, XML tag	RL-18	N		
11/23/2010	Added Parent's name	RL-19	N		

				Vori	Light Duty Data Requirement
11/23/2010	Added Parent's name	RL-20	N	veri	y Light-Duty Data Requirement
11/23/2010	Added Parent's name	RL-21	N		
11/23/2010	Added Parent's name	RL-22	N		
11/23/2010	Added Parent's name	RL-24	N		
11/23/2010	Added Parent's name	RL-25	N		
11/23/2010	Added Parent's name	RL-26	N		
11/23/2010	Added Parent's name, XML tag	RL-27	N		
2/9/2011	Updated all BR numbers with applicable JIRA numbers				
4/28/2011	Hide the business rule text column	All DE's			
1/19/2012	new Description, Parent's Name and XML Tag information	Multiple DE's			
1/19/2012	updated the Originator, Collection Point, and Collection Type	RL-7			
1/19/2012	Added DE's	RL-0.5, 1, 1.7, 1.8, 2.1, 2.2 and 28			
1/19/2012	Removed DE	RL-3.5			
5/4/2012	Changed "RoadLoadHorsepowerValue" to "TotalRoadLoadHorsepowerValue"	RL-22			
2/25/2013	Updated Description	RL-9, RL-9.1, RL-10, RL- 10.1			
2/25/2013	Changed Parent's Name and XML Tag to "NA"	RL-8, RL-9, RL-9.1, RL-10, RL-10.1, RL-11, RL-12, RL-13, RL-14			
2/25/2013	Corrected Basic Data Type, Data Type Description, and Max Length	RL-10.1			
Vehicle Information					1
12/21/2010	Changed Min Value from 0.1 to 0.0	VI-43.5	N		
12/22/2010	Updated the first Validation Rule with new text	VI-11.6	N		
2/9/2011	Updated all BR numbers with applicable JIRA numbers				
3/30/2011	Updated description to remove the selection of invalid value of 'NA'	VI-15			
4/18/2011	Fixed enum values (S/T)	VI-11 2 VI-11 3			
4/28/2011	Added new enumeration: 'HYD'	VI-11 1			
4/28/2011	Hide the business rule text column	All DE's			
8/19/2011	Updated status of all applicable data elements from TBD to changes due to new technologies	All DE's			
8/19/2011	Added strike through text on the word New in the BR section	VI-10			
8/24/2011	Added BR LD-CTD-VI-BE001	VI-10.6			
6/20/2012	Updated Applicable Business Rules for	VI-40.5, VI-41, VI-42, VI-			
0/29/2012	Maintenance Release 10.1.0	43, VI-44, VI-45, VI-46			
9/26/2014	Added new data elements	VI-6.5, VI-6.6			
9/26/2014	Updated Applicable Business Rules for Release Flamingo	VI-40.5, VI-41, VI-42, VI- 43, VI-44, VI-45, VI-46			
Test Information					
12/21/2010	Modified Notes/Questions to add mapping for Test Procedures Codes 84, 85, 86 Replaced the validations rules with the new rule	TI-43	N		
12/21/2010	Added new note re: Test Procedure Codes 80, 82	TI-8	N		
12/21/2010	Updated the first Validation Rule with new text	TI-40	N		
2/9/2011	Updated all BR numbers with applicable JIRA numbers				
2/9/2011	Added new enumeration value "AS-VOLT"	TI-19	N		
2/10/2011	Changed DE number due to duplication	TI-18.5	N	This DE number was duplicated so EPA requested the new DE "Charge Depleting Range (Calculated miles)" be changed to TI-18.6.1	
2/21/2011	Added new DE for Opt-CREE	TI-19.5.1		Created separate DE's for CREE and Opt- CREE Updated BR - need to confirm text is correct	
2/21/2011	Updated existing DE	TI-19.5		Removed Opt-CREE portion	
2/24/2011	Updated BR text as it is in VERIFY-3326	TI-19			
2/24/2011	Changed the DE number from TI-19.5.1 to TI-19.6 as it is listed in schema; Added XML tag and Parent Name	TI-19.6	 Y		
2/24/2011	Updated Parent Name	TI-20.6			1
3/30/2011	Added the Data Type Description as 'Enumeration'	TI-20.5			1

4/13/2011	Added new BR for TI-19	TI-19		Verif	/ Light-Duty Data Requirements
4/13/2011	Added new enumeration value "NOT5C"	TI-45			
4/15/2011	Updated enumeration list from KW-HR100 to KW- HR/100	TI-20.5			
4/28/2011	Hide the business rule text column	All DE's			
6/21/2011	Deleted the Data Element "Verify-Calculated Opt- CREE"	TI-68			
6/21/2011	Deleted the Data Element "Verify-Calculated CREE"	TI-67			
6/22/2011	Added new data elements	TI-69, TI-70, TI-71, TI-72, TI-73, TI-74, TI-75 and TI- 76			
8/19/2011	Changed allowed values from "Not Test 5-Cycle Category" to "Not Test 5-Cycle"	TI-45			
8/19/2011	Changed status from "TBD" to "Label/CAFE/GHG Changes"	TI 20.5 and TI 20.6			
8/19/2011	Changed status from "TBD" to Changes Due To New Technologies (Multi Fuels, PHEV).	TI 18.1 through 18.7			
8/22/2011	the following portion in the description: "Note the list of test result names includes possible fuel economy test results also. CREE and Opt-CREE are not allowable values at the test level; these will be calculated by Verif yfor EPA confirmatory tests and when tests are used in a Test Group." and replaced it with the following: "CREE' or 'OPT- CREE' values are required in the Charge Depleting Bag / Phase #1 section. Otherwise, they are optional."	TI-19			
8/24/2011	Changed the required fields to false and the description to "without deterioration factors applied."	TI-19.1 through TI-19.8			
8/24/2011	Added BR LD-CTD-TI-BE001	TI-39			
8/24/2011	Added BR's LD-CTD-TI-BE003 and LD-CTD-TI- BE002	TI-40			
8/24/2011	Removed note because the new BR was added	TI-22			
1/24/2012	Updated the description	TI-19			
4/12/2012	Updated to change the Data Element Name from "Vehicle Configuration #" to "Vehicle Configuration Number"	TI-5			
6/1/2012	Updated Applicable Business Rules for Emergency Release 10.0.3	TI-0.5, TI-1, TI-19.4			
8/21/2012	Updated Applicable Business Rules for Maintenance Release 10.2.0	TI-43			
9/27/2012	Added new enumeration values "Hot 1435 LA92" and "US06 Bag 2 Only"	TI-8			
9/27/2012	Added new enumeration value "CARB LEV3 E10 REGULAR GASOLINE"	TI-9			
9/27/2012	Added new enumeration values "NMOG+NOX" and "NMOG+NOX-COMP"	TI-19			
11/1/2012	Added new enumeration value "CARB LEV3 E10 PREMIUM GASOLINE"	TI-9			
4/4/2013	Added new enumeration value "CARB CERT DIESEL 7-15 PPM SULFUR" and revised enumeration value for 19 to "FEDERAL CERT DIESEL 7-15 PPM SULFUR"	TI-9			
4/4/2013	Added enumeration values "DT-IWRR (Drive Trace Inertia Work Ratio Rating)," "DT-ASCR (Drive Trace Absolute Speed Change Rating)," and "DT-EER (Drive Trace Energy Economy Rating)"	TI-19			
4/4/2013	Revised Min Value to accommodate new Drive Trace test result/emission names	TI-20			
4/4/2013	Updated Applicable Business Rules for Release Badger	TI-4, TI-5, TI-9, TI-13.5, TI- 18.5, TI-19, TI-20, TI-45			
9/26/2014	Added new enumeration values "HWY80 (80 MPH HIGHWAY TEST)," AC17 - MANUAL A/C CONTROLS," "EVAP CARB FUEL ONLY (RIG) TEST, "EVAP CANSTER BLEED TEST," "LEAK TEST - EVAP FUEL SYSTEM OBD," "LEAK TEST - PORT NEAR CANISTER," "LEAK TEST - PORT NEAR FUEL PIPE," and "LEAK TEST - EVAP GAS CAP"	ті-8			

9/26/2014	Added new enumeration values "COLD CO E10 REGULAR GASOLINE (TIER 3)," "COLD CO E10 PREMIUM GASOLINE (TIER 3)," "COLD CO DIESEL 7-15 PPM SULFUR," "TIER 3 E10 REGULAR GASOLINE (9 RVP@LOW ALT.)," "TIER 3 E10 PREMIUM GASOLINE (9 RVP@LOW ALT.)," "TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR ONLY)," and "TIER 3 E10 PREMIUM GASOLINE (10 RVP-FFV ORVR ONLY)"	TI-9				y ugnt-Duty Data Requirements
9/26/2014	Added new data elements	TI-24.5, TI-24.6, TI-24.8				
9/26/2014	Added new enumeration values "HC-TOTAL- EQUIV," "METHANE-COMB," "N2O-COMB," "LEAK-DIA," and "LEAK-GAS CAP"	TI-19				
9/26/2014	Deleted enumeration values "URBRNG" and "HWYRNG"; added new enumeration values "EVAP-COMP" and "EVAP-LEAK"; updated test procedures for test categories	TI-43				
9/26/2014	Updated test fuels for test fuel categories	TI-44				
9/26/2014	Updated Applicable Business Rules for Release Flamingo	TI-9, TI-19, TI-24.5, TI-45				
Test Group						
12/21/2010	Updated Collection Type column as 'Pre-existing Data'	TG-203		N		
12/21/2010	Updated Multiplicity column	TG-7.4		N		
12/21/2010	Updated Multiplicity column	TG-7.4.1		N		
12/21/2010	Updated Multiplicity column	TG-7.5		N		
12/21/2010	Updated Multiplicity column	TG-218		N		
12/21/2010	Updated Multiplicity column	TG-219		N		
12/21/2010	Updated Multiplicity column	TG-219.1		N		
12/21/2010	Updated Multiplicity column	TG-219.2		N		
12/21/2010	Undated Multiplicity column	TG-8.4		N		-
12/21/2010	Lindated Multiplicity column	TG-8.5		N		
12/21/2010	Lindated Multiplicity column	TG-8.6		N		
12/21/2010	Lindated Multiplicity column	TG-210.2.1		N		
12/21/2010	Lindated Multiplicity column	TG-219.3.1		N		
12/21/2010	Opdated Multiplicity column	TG-219.4.1		N		
1/27/2011	Updated validation rule	TG-7.7		N	New Text: If Drive Source (TG-7.1) equals (C' (Combustion Engine) and if more than one Fuel(S) (TG-7.3) selected is combustible (i.e., "Gasoline" (G), "Diesel" (D), "Methanol" (M), "Ethanol" (E), "Compressed Natural Gas" (CNG), "Liquified Natural Gas" (LNG), or "Liquified Petroleum Gas" (LPG), and optional for "Hydrogen" (H), then Multiple Fuel Combustion - Separate or Together (TG- 7.7) is required. Otherwise, it is not allowed.	
1/27/2011	Updated validation rule	TG-7.5		N	New Text: If more than one Fuel(s) (TG- 7.3) is selected for the Test Group when Drive Source (TG-7.1) is 'C' (combustion Engine), and if model year is greater than or equal to 2012, then CREE Weighting Factor for Dual/Multiple Fuel Vehicles (TG- 7.5) is required for each fuel. Otherwise, it is not allowed.	
2/9/2011	Updated all BR numbers with applicable JIRA					
2/9/2011	Added new data element	TG-217.1				
2/9/2011	Added new enumeration value "AS-VOLT"	TG-225				1
2/21/2011	Created new DE for Opt-CREE	TG-8.4.1				
2/21/2011	Updated DE	TG-8.4			Removed Opt-CREE	1
2/23/2011	Created new DE for Opt-CREE	TG-8 5 1				1
	La companya de los ope once		1	1	1	1

2/23/2011	Updated DE	TG-8.5		Removed Opt-CREE	Verif	y Light-Duty Data Requirements
2/23/2011	Created new DE for Opt-CREE	TG-8.6.1				
2/23/2011	Updated DE	TG-8.6		Removed Opt-CREE		
2/24/2011	Updated Required Field to FALSE	TG-216.7				
2/24/2011	Updated Required Field to FALSE	TG-32.5				
2/24/2011	Updated Required Field to FALSE	TG-32.6				
2/24/2011	Updated XML Tag	TG-8.4				
2/24/2011	Added new XML Tag and Parent Name	TG-8.4.1				
2/24/2011	Updated XML Tag and Parent Name	TG-8.5				
2/24/2011	Updated XML Tag and Parent Name	TG-8.6				
2/24/2011	Added new XML Tag and Parent Name	TG-8.5.1				
2/24/2011	Added new XML Tag and Parent Name	TG-8.6.1				
2/28/2011	Updated the Enumeration List, Applicable Business Rules, and English Validation Rules column	TG-209				
2/28/2011	Updated the Enumeration List, Applicable Business Rules, and English Validation Rules column	TG-225				
3/3/2011	Added new business rules created based on the Group business rules	Many DE's				
3/30/2011	Corrected the XML tag	TG-7.9				
3/30/2011	Added the Allowed Values (same as TG-204)	TG-217.1				
	Corrected the Allowed Value to remove 'COLD' as		-			
3/30/2011	a valid option	TG-203				
4/7/2011	discussed in VERIFY-7209	TG-7.4.1				
4/15/2011	Updated Applicable BRs	All DE's				
4/18/2011	Fixed enum values (S/T)	TG-7.6 TG 7.7				
4/28/2011	Added new enumeration: 'HYD'	TG-7.3				
4/28/2011	Hide the business rule text column	All DE's				
6/21/2011	Deleted BR LD-CERT-TG-BR111	Z-16				
6/21/2011	Deleted the Data Element "CREE Weighting Factor for Dual/Multiple Fuel Vehicles"	TG-16				
6/21/2011	Deleted the Data Element "Manufacturer- calculated Combined Test Group CREE Certification Level (Per Test Group Fuel)"	TG-179				
6/21/2011	Deleted the Data Element "Manufacturer- calculated Combined Test Group Opt-CREE Certification Level (Per Test Group Fuel)	TG-180				
6/21/2011	Deleted the Data Element "Verify-calculated Combined Test Group CREE Certification Level (Per Test Group Fuel)"	TG-181				
6/21/2011	Deleted the Data Element "Verify-calculated Combined Test Group Opt-CREE Certification Level (Per Test Group Fuel)"	TG-182				
6/21/2011	Deleted the Data Element "Discrepancy between Verify and Manufacturer-calculated Combined Test Group CREE (Per Test Group Fuel)."	TG-183				
6/21/2011	Deleted the Data Element "Discrepancy between Verify and Manufacturer-calculated Combined Test Group Opt-CREE (Per Test Group Fuel)."	TG-184				
8/22/2011	Updated status from TBD to appropriate status	TG 7.1-7.8, 8.3, 32.5-32.6, 216.7, 219.1-219.2, and 8.4-8.6.1				
8/22/2011	Reopened Data Element "CREE Weighting Factor for Dual/Multiple Fuel Vehicles"	TG-7.5				
8/22/2011	Deleted note; it is no longer valid	TG-209				
8/22/2011	Removed the following text from the description: "per 40 CFR 86.1801-12. (j) SBA exemption, (k) conditional exemption,"	TG-216.7				
8/24/2011	Added two new DE	TG-219.3 and TG-219.4				
9/12/2011	Added the following text to TG-212: For Test Result/Emission Names equal to "CREE" or "OPT- CREE", enter a value of "399.9999" for the Emission Standard Value.	TG-212				
9/16/2011	Added new business rule	TG-217				
9/16/2011	Added new business rule	TG-218				

9/16/2011	Added new business rule	TG-219		Verif	v Light-Duty Data Requirements
9/16/2011	Added new business rule	TG-219.1			
9/16/2011	Added new business rule	TG-219.2			1
9/16/2011	Added new business rule	TG-219.3			
9/16/2011	Added new business rule	TG-219.4			
12/16/2011	Added T1 to enumeration list	TG-201			
1/13/2012	Changed "MFR FE" to "RAFE" in the description	TG-219.3.1, TG-219.3.2, 219.4.1 and TG219.4.2			
1/24/2012	Edited allowed values field	TG-16			
1/24/2012	Added new DE	TG-6.5			
3/29/2012	Updated Enumeration	TG-201, TG-209			
8/17/2012	Changed Basic Data Type from N(4,2) to N(6,2) and updated Max Value and Total Digits accordingly	TG-83			
9/27/2012	Added new enumeration values "HOT 1435 LA92" and "US06 BAG 2 ONLY"	TG-204.5, TG-223.5			
9/27/2012	Added new enumeration values "NMOG+NOX" and "NMOG+NOX-COMP"	TG-209, TG-225			
10/4/2012	Revised M6 and M7 vehicle class enumerations	TG-16, TG-205			
10/4/2012	Revised existing and added new California exhaust standard enumeration values	TG-201			
10/4/2012	Revised existing and added new California evaporative standard enumeration values	TG-224			
11/1/2012	Removed enumeration values "L2SULEV170" and "L2SULEV230"	TG-201			
4/9/2013	Updated Applicable Business Rules for Release Badger.	TG-209, TG-225			
9/26/2014	Added new enumeration values "T3B160", "T3B125", "T3B110", "T3B85", "T3SULEV3", "T3B70", "T3B50", "T3B20", "T3B20", "HDV2B395", "HDV2B340", "HDV2B250", "HDV2B510", "HDV2B50", "HDV2B20", "HDV3B630", "HDV3B570", "HDV3B400", "HDV3B630", "HDV3B570", "HDV3B200", and "HDV230",	TG-201			
9/26/2014	Added new enumeration values "HWY80 (80 MPH HIGHWAY TEST)," " AC17 - MANUAL A/C CONTROLS," "AC17 - AUTOMATIC A/C CONTROLS," "EVAP CARS FUEL ONLY (RIG) TEST," "EVAP CANISTER BLEED TEST," "LEAK TEST - PORT NEAR CANISTER, "LEAK TEST - PORT NEAR FUEL PIPE," and "LEAK TEST - EVAP GAS CAP"	TG-204.5, TG-223.5			
9/26/2014	Added new enumeration values "HC-TOTAL- EQUIV," "METHANE-COMB," "N2O-COMB," "LEAK-DIA," and "LEAK-GAS CAP"	TG-209, TG-225			
9/26/2014	Updated Basic Data Type	TG-207			
9/26/2014	Added new enumeration values "T3" and "T3-3Z"	TG-224			
9/26/2014	Renamed data element to "SFTP Federal Compliance Identifier"; changed enumeration list to "TIER2," "TIER3," and "NA"; changed XML tag to FederalComplianceIdentifier	TG-216.8			
9/26/2014	Renamed data element to "SFTP Tier 2 Composite CO Option"	TG-216.9			
9/26/2014	Renamed data element to "HC-NM+NOX-COMP - Tier 2"	TG-219.5			
9/26/2014	Renamed data element to "CO-COMP - Tier 2/Tier 3"	TG-219.6			
9/26/2014	Renamed data element to "PM-COMP - Tier 2"	TG-219.7			
9/26/2014	Deleted enumeration values "URBRNG" and "HWYRNG", added new enumeration values "EVAP-COMP" and "EVAP-LEAK", updated test procedures for test categories	TG-203			
9/26/2014	Added new data elements	TG-255, TG-256, TG-257, TG-261, TG-262, TG-263, TG-264, TG-265			
9/26/2014	Updated Applicable Business Rules for Release Flamingo	TG-7.3, TG-200.5, TG-201, TG-202.5, TG-209, TG- 210, TG-217, TG-218, TG- 219, TG-224, TG-262, TG- 263, TG-264, TG-265,			

2/9/2011 Updated all BR numbers with applicable JIRA numbers 4/28/2011 Hide the business rule text column All DE' 6/9/2011 Changed Data Element name to "Manufacturer Footprint Target GHG Value Rounded to One Decimal Place (grams per mile)" from " Two Decimal Places" per EPA Meeting 06/02/2011 FT 20 7/14/2011 Added new Data Element FT-0.7 Submitter Manufacturer Code FT-0.7 7/14/2011 Changed the XML Tag from EPAManufacturerCode to CarlineManufacturerCode to FT-1 FT-1 9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and I	s		
Inumbers Inumbers 4/28/2011 Hide the business rule text column All DE 6/9/2011 Changed Data Element name to "Manufacturer Footprint Target GHG Value Rounded to One Decimal Place (grams per mile)" from " Two Decimal Places" per EPA Meeting 06/02/2011 FT 20 7/14/2011 Added new Data Element FT-0.7 Submitter Manufacturer Code FT-0.7 7/14/2011 Changed the XML Tag from EPAManufacturerCode to CarlineManufacturerCode to FT-1 FT-1 9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and I	S		
4/26/2011 File the Usainess fue text Column Air DE 6/9/2011 Changed Data Element name to "Manufacturer Footprint Target GHG Value Rounded to One Decimal Places (grams per mile)" from " Two Decimal Places" per EPA Meeting 06/02/2011 FT 20 7/14/2011 Added new Data Element FT-0.7 Submitter Manufacturer Code FT-0.7 7/14/2011 Changed the XML Tag from EPAManufacturerCode for FT-1 FT-1 9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and I	7		
6/9/2011 Changed Data Element name to "Manufacturer Footprint Target GHG Value Rounded to One Decimal Place (grams per mile)" from " Two Decimal Places" per EPA Meeting 06/02/2011 FT 2C 7/14/2011 Added new Data Element FT-0.7 Submitter Manufacturer Code FT-0.7 7/14/2011 Changed the XML Tag from EPAManufacturerCode to CarlineManufacturerCode to FT-1 FT-1 9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and I	7		
7/14/2011 Added new Data Element FT-0.7 Submitter Manufacturer Code FT-0.7 7/14/2011 Changed the XML Tag from EPAManufacturerCode to CarlineManufacturerCode for FT-1 FT-1 9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and I	7		
7/14/2011 Changed the XML Tag from EPAManufacturerCode to CarlineManufacturerCode for FT-1 FT-1 9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and I		 	
9/13/2011 Changed Min Value from 0.1 to 0.0, Required to FALSE & Added new business rules FT-16 and F			
	FT-17		
9/16/2011 Added new business rule FT-5			
9/30/2011 Updated XML tags FT-13, 14, 15, 1	16, 17, 18		
8/21/2012 Updated Applicable Business Rules for Maintenance Release 10.2.0 FT-0.7	7		
6/20/2013 Added new data element FT-37 Footprint Vehicle FT-37 Type	,		
Decision Information			
2/9/2011 Updated all BR numbers with applicable JIRA numbers			
3/30/2011 Corrected the XML tag DI-25	1		
4/28/2011 Hide the business rule text column All DE	s		
12/16/2011 Added T1 to enumeration list DI-9			
1/19/2012 Added XML tag DI-25.1	5		
3/29/2012 Updated Enumeration DI-9, DI-	-10		
6/29/2012 Updated Applicable Business Rules for DI-1, DI-3, DI App	-4, DI-5		
9/27/2012 Added new enumeration values "HOT 1435 LA92" DI-18, DI and "US06 BAG 2 ONLY" DI-18, DI	-38		
9/27/2012 Added new enumeration value "CARB LEV3 E10 DI-19, DI- REGULAR GASOLINE" DI-19, DI-	38.5		
10/4/2012 Revised existing Bin enumeration values DI-9			
10/4/2012 Revised existing and added new California exhaust standard enumeration values DI-10			
10/4/2012 Revised existing and added new California evaporative standard enumeration values DI-12			
Added new enumeration value "CARB LEV3 E10 DI-19, DI- PREMIUM GASOLINE" DI-19, DI-	38.5		
11/1/2012 Removed enumeration values "L2SULEV170" and DI-10 "L2SULEV230" DI-10			
4/4/2013 Added new enumeration value "CARB CERT DIESEL 7-15 PPM SULFUR" and revised enumeration value for 19 to "FEDRAL CERT DIESEL 7-15 PPM SULFUR"	38.5		
Added new enumeration values "T3B160", "T3B125", "T3B110", "T3B85", "T3SULEV3", "T3B70", "T3B50", "T3B20", "T3B20", "HDV2B35", "HDV2B340", "HDV2B250", HDV2B170", "HDV2B150", "HDV2B40", "HDV3B50", "HDV3B570", "HDV3B400", "HDVB270", "HDV3B200", and "HDV3B0"			
9/26/2014 Added new enumeration values "T3" and "T3-3Z" DI-11			
Added new enumeration values "HWY80 (80 MPH HIGHWAY TEST)," AC17 - MANUAL A/C CONTROLS," "AC17 - AUTOMATIC A/C CONTROLS," "EVAP CARB FUEL ONLY (RIG) 9/26/2014 TEST - FUAP FUEL SYSTEM OBD," "LEAK TEST - EVAP FUEL SYSTEM OBD," "LEAK TEST - PORT NEAR CANISTER," "LEAK TEST - PORT NEAR FUEL PIPE," and "LEAK TEST - EVAP GAS CAP"	-38		

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9/26/2014	Added new enumeration values "COLD CO E10 REGULAR GASOLINE (TIER 3), "COLD CO E10 PREMIUM GASOLINE (TIER 3)," COLD CO DIESEL 7-15 PPM SULFUR," "TIER 3 E10 REGULAR GASOLINE (9 RVP@LOW ALT.)," "TIER 3 E10 PREMIUM GASOLINE (9 RVP@LOW ALT.)," "TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR ONLY)," "TIER 3 E10 PREMIUM GASOLINE (10 RVP-FFV ORVR ONLY)"	DI-19, DI-38.5		y ugnt-Duty Data kequirements
9/26/2014	Added new data element	DI-38.8		1
9/26/2014	Updated Applicable Business Rules for Release Flamingo	DI-9, DI-11, DI-38.5		
Shift Schedule				
2/9/2011	Updated all BR numbers with applicable JIRA			1
23/2011	numbers			-
4/28/2011	Hide the business rule text column	All DE's		-
9/26/2014	Added new enumeration values "HWY80" and "LA92"; removed enumeration values "LA4 (prep only)", "LA4", "505", "HWFE (no warmup)", "SCC#1", "SCC#2", "BIH (Auto)", "BIH (Manual)", "38agHWFE", "38ag505", and "LA4 (perturbed 1.5)"	SS-56		
Supplemental Information				
2/9/2011	Updated all BR numbers with applicable JIRA numbers			 _
2/9/2011	Added new enumeration value "AS-VOLT"	SI-59		
2/28/2011	Updated English Validation Rule based on JIRA	SI-59		
4/28/2011	Hide the business rule text column	All DE's		
12/16/2011	Added T1 to enumeration list	SI-57A		
3/29/2012	Updated Enumeration	SI-91, SI-57A, SI-71		
6/29/2012	Updated Applicable Business Rules for Maintenance Release 10.1.0	SI-1, SI-2, SI-3, SI-3.5, SI- 26, SI-27, SI-41.5		
9/27/2012	Added new enumeration values "HOT 1435 LA92" and "US06 BAG 2 ONLY"	SI-41.5, SI-92, SI-98		
9/27/2012	Added new enumeration values "NMOG+NOX" and "NMOG+NOX-COMP"	SI-59, SI-71		-
10/4/2012	Revised M6 and M7 vehicle class enumerations	SI-91		
10/4/2012	Revised existing and added new California exhaust standard enumeration values	SI-57A		-
10/4/2012	Revised existing and added new California evaporative standard enumeration values	SI-57B		
11/1/2012	"L2SULEV230"	SI-57A		
4/9/2013	Badger.	SI-59, SI-71		
9/26/2014	Added new enumeration values "HWY80 (80 MPH HIGHWAY TEST)," "AC17 - MANUAL A/C CONTROLS," "AC17 - AUTOMATIC A/C CONTROLS," "EVAP CARE FUEL ONLY (RIG) TEST," "EVAP CANISTER BLEED TEST," "LEAK TEST - EVAP CANISTER BLEED TEST," "LEAK TEST - PORT NEAR CANISTER," "LEAK TEST - PORT NEAR FUEL PIPE," and "LEAK TEST - EVAP GAS CAP"	SI-41.5, SI-92, SI-98		
9/26/2014	Added new enumeration value "Road Speed Fan (width 31.5" x height 24")"; Revised "9" enumeration value.	SI-42		
9/26/2014	Added new data elements	SI-44.5, SI-49.5, SI-49.7		
9/26/2014	Added new enumeration values "T3B160", "T3B125", "T3B110", "T3B85", "T3SULEV3", "T3B70", "T3B50", T3B30", "T3B20", "T3B20", "HDV2B35", "HDV2B340", "HDV2B50", "HDV2B170", "HDV2B150", "HDV2B0", "HDV3B630", "HDV3B570", "HDV3B400", "HDV3B630", "HDV3B230", "HDV3B200", and "HDV3B0"	SI-57A		
9/26/2014	Added new enumeration values "HC-TOTAL- EQUIV," "METHANE-COMB," "N2O-COMB," "LEAK-DIA," and "LEAK-GAS CAP"	SI-59, SI-71		
9/26/2014	Updated Basic Data Type	SI-58.6]
9/26/2014	Added new enumeration values "T3" and "T3-3Z"	SI-57B		
9/26/2014	Updated Applicable Business Rules for Release	SI-44.5, SI-57A, SI-57B		

2/9/2011 Updated all BR numbers with applicable JIRA numbers All DE's 4/28/2011 Hide the business rule text column All DE's 9/16/2011 Added new enumerations values and new business rules. CL-5	
All DE's 9/16/2011 Added new enumerations values and new business rules.	
4/20/2011 Adde new enumerations values and new business rules. CL-5	
9/16/2011 business rules. CL-5	
It is a factor of the second at the second and the second at the second	
9/30/2011 Updated the annotation for the enumeration values and added new business rule. CL-5	
2/21/2013 Corrected Basic Data Type and Max Length CL-6	
6/11/2013 Updated Applicable Business Rules for Release CL-5	
Evaporative Family	
2/9/2011 Updated all BR numbers with applicable JIRA numbers	
3/30/2011 Corrected the XML tag EV-3	
4/18/2011 Fixed enum values (S/T) EV-3.6	
4/28/2011 Added new enumeration: 'HYD' EV-3.5	
4/28/2011 Hide the business rule text column All DE's	
9/26/2014 Added new data elements EV-20, EV-21, EV-22, EV-22, EV-22, EV-23, EV-25, EV-26, EV-27, EV-28, EV-29, EV	
Certificate Request	
2/9/2011 Updated all BR numbers with applicable JIRA numbers	
4/28/2011 Hide the business rule text column All DE's	
1/24/2012 Updaed the description CR-10 and CR-22	
4/19/2012 Changed "Revised Certificate?" to "New CR-21 Certificate Needed"	
6/28/2013 Updated Applicable Business Rules for Release CR-4, CR-9, CR-10, CR- Cougar. CR-11, CR-12, CR-14, CR-15, CR-16	
9/26/2014 Updated description CR-10 CR-10	
IUVP Test Information	
Added enumeration value COMB-CREE and 12/10/2013 COMB-OPT-CREE IT-28	
2/9/2011 Updated all BR numbers with applicable JIRA numbers	
2/9/2011 Added new enumeration value "AS-VOLT" IT-28	
4/28/2011 Hide the business rule text column All DE's	
12/16/2011 Added new enumerations IT-30	
5/3/2012 Updated to Add BR026 and deleted Enumerations IT-28	
9/27/2012 Added new enumeration values "HOT 1435 LA92" IT-14	
9/27/2012 Added new enumeration value "CARB LEV3 E10 IT-15	
9/27/2012 Added new enumeration values "NMOG+NOX" IT-28	
and "NMOG+NOX-COMP" CARB LEV3 E10	
PREMIUM GASOLINE" II-19	
4/4/2013 Added new enumeration value "CARB CERT DIESEL 7-15 PPM SULFUR" and revised enumeration value for 19 to "FEDERAL CERT DIESEL 7-15 PPM SULFUR"	
Added new enumeration values "DT-IWRR (Drive Trace Inertia Work Ratio Rating)," "DT-ASCR (Drive Trace Absolute Speed Change Rating)," and "DT-EER (Drive Trace Energy Economy Rating)" IT-28	
4/4/2013 Revised Min Value to accommodate new Drive IT-29 IT-29	
4/29/2013 Added new enumeration value "N/A" IT-30	
4/29/2013 Updated Applicable Business Rules for Release IT-28, IT-29, IT-30	
IUVP Vehicle Information	
2/9/2011 Updated all BR numbers with applicable JIRA numbers	
4/28/2011 Hide the business rule text column All DE's	
Fuel Properties	
9/27/2012 Added new enumeration value "CARB LEV3 E10 FP-4	
Image: Negotian Casoline FP-4	

4/4/2013	Added new enumeration value "CARB CERT DIESEL 7-15 PPM SULFUR" and revised enumeration value for 19 to "FEDERAL CERT DIESEL 7-15 PPM SULFUR"	FP-4		Verif	y Light-Duty Data Requirements
9/26/2014	Added new enumeration values "COLD CO E10 REGULAR GASOLINE (TIER 3)," "COLD CO E10 PREMIUM GASOLINE (TIER 3)," "COLD CO DIESEL 7-15 PPM SULFUR," "TIER 3 E10 REGULAR GASOLINE (9 RVP@LOW ALT.)," "TIER 3 E10 PREMIUM GASOLINE (9 RVP@LOW ALT.)," "TIER 3 E10 REGULAR GASOLINE (10 RVP-FFV ORVR ONLY)," "TIER 3 E10 PREMIUM GASOLINE (10 RVP-FFV ORVR ONLY)"	FP-4			
9/26/2014	Updated Applicable Business Rules for Release Flamingo	FP-4			

United States Environmental Protection Agency, Office of Air and Radiation, Office of Transportation and Air Quality Date 2014-Iuly-21

Date	2014-July-21			
Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	CAFÉ	CA-127	GHG Exempt Indicator	New Data Element
11/23/2010	CAFÉ	CA-128	GHG Calculation Method	New Data Element
11/23/2010	CAFÉ	CA-129	For OCREE calculations, should N2O emissions always default to .010gpm?	New Data Element
11/23/2010	CAFÉ	CA-130	EPA Calculated Official Model Year GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-131	EPA Calculated Official Model Year GHG TLAAS Production Units	New Data Element
11/23/2010	CAFÉ	CA-132	Manufacturer Calculated Official Model Year GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-133	Manufacturer Calculated Official Model Year GHG TLAAS Production Units	New Data Element
11/23/2010	CAFÉ	CA-134	EPA Calculated Baseline Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-135	EPA Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-136	EPA Calculated Baseline Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-137	EPA Calculated Baseline Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-138	Manufacturer Calculated Baseline Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-139	Manufacturer Calculated Baseline Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-140	Manufacturer Calculated Baseline Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-141	Manufacturer Calculated Baseline Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-142	EPA Calculated Final Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-143	EPA Calculated Final Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-144	EPA Calculated Final Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-145	EPA Calculated Final Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-146	Manufacturer Calculated Final Average GHG Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-147	Manufacturer Calculated Final Average GHG TLAAS Unrounded 4 Decimal	New Data Element
11/23/2010	CAFÉ	CA-148	Manufacturer Calculated Final Average GHG Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-149	Manufacturer Calculated Final Average GHG TLAAS Rounded Whole Number	New Data Element
11/23/2010	CAFÉ	CA-150	Manufacturer Calculated Final Truck CAFE Rounded 1 Decimal	New Data Element
11/23/2010	CAFÉ	CA-151	EPA Official Average GHG Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-152	EPA Official Average GHG TLAAS Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-153	Manufacturer Calculated Official Average GHG Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-154	Manufacturer Calculated Official Average GHG TLAAS Grams Per Mile	New Data Element
11/23/2010	CAFÉ	CA-155	CAFE Domestic/Import Indicator	New Data Element
11/23/2010	CAFÉ	CA-156	GHG TLAAS Indicator	New Data Element
11/23/2010	CAFÉ	CA-157	GHG Advanced Technology Indicator	New Data Element
11/23/2010	CAFÉ	CA-158	Footprint Final Model Year GHG Production Units	New Data Element
11/23/2010	CAFÉ	CA-159	EPA Calculated Footprint Target GHG Value (grams per mile)	New Data Element
11/23/2010	CAEÉ	CA-160	Manufacturer Calculated Unrounded GHG Standard	New Data Element
11/23/2010	CAFÉ	CA-161	EPA Calculated Unrounded GHG Standard	New Data Element
1 11-012010	0/ u L			

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11/23/2010	CAFÉ	CA-162	Value	New Data Element
11/23/2010	CAFÉ	CA-163	EPA Calculated Final GHG Standard	New Data Element
11/23/2010	CAFÉ	CA-164	Manufacturer GHG Comments	New Data Element
			EPA Calculated Baseline Model Type City GHG Value 1	
11/23/2010	CAFÉ	CA-165	decimal	New Data Element
		04.400	EPA Calculated Baseline Model Type Highway GHG	
11/23/2010	CAFÉ	CA-166	Value 1 decimal	New Data Element
			EPA Calculated Baseline Model Type Combined GHG	
11/23/2010	CAFÉ	CA-167	Value 1 decimal	New Data Element
		04.460	EPA Calculated Baseline Model Type Combined GHG	
11/23/2010	CAFÉ	CA-168	Value Whole Number	New Data Element
		04.400	EPA Calculated Final Model Type City GHG Value 1	
11/23/2010	CAFÉ	CA-109	decimal	New Data Element
		CA 170	EPA Calculated Final Model Type Highway GHG Value 1	
11/23/2010	CAFÉ	CA-170	decimal	New Data Element
		CA 171	EPA Calculated Final Model Type Combined GHG Value	
11/23/2010	CAFÉ	CA-1/1	1 decimal	New Data Element
		04.470	EPA Calculated Final Model Type Combined GHG Value	
11/23/2010	CAFÉ	CA-172	Whole Number	New Data Element
		CA 172		
11/23/2010	CAFÉ	CA-1/3	EPA Calculated Model Type GHG Production Units	New Data Element
		CA 174	EPA Calculated Baseline Base Level City GHG Value 1	
11/23/2010	CAFÉ	CA-174	decimal	New Data Element
		CA-175	EPA Calculated Baseline Base Level Highway GHG	
11/23/2010	CAFÉ	CAHIS	Value 1 decimal	New Data Element
		CA-176	EPA Calculated Baseline Base Level Combined GHG	
11/23/2010	CAFÉ	CATIO	Value 1 decimal	New Data Element
		CA-177	EPA Calculated Final Base Level City GHG Value 1	
11/23/2010	CAFÉ	0.111	decimal	New Data Element
		CA-178	EPA Calculated Final Base Level Highway GHG Value 1	
11/23/2010	CAFÉ		decimal	New Data Element
		CA-179	EPA Calculated Final Base Level Combined GHG Value 1	
11/23/2010	CAFÉ		decimal	New Data Element
11/23/2010	CAFÉ	CA-180	EPA Calculated Base Level GHG Production Units	New Data Element
		CA-181	EPA Calculated Baseline Configuration City GHG Value	
11/23/2010	CAFÉ		1 decimal	New Data Element
	,	CA-182	EPA Calculated Baseline Configuration Highway GHG	
11/23/2010	CAFÉ		Value 1 decimal	New Data Element
		CA-183	EPA Calculated Baseline Configuration Combined GHG	
11/23/2010	CAFÉ		Value 1 decimal	New Data Element
	,	CA-184	EPA Calculated Final Configuration City GHG Value 1	
11/23/2010	CAFE		decimal	New Data Element
	,	CA-185	EPA Calculated Final Configuration Highway GHG Value	
11/23/2010	CAFE		1 decimal	New Data Element
		CA-186	EPA Calculated Final Configuration Combined GHG	
11/23/2010	CAFE		Value 1 decimal	New Data Element
		CA-187		
11/23/2010	CAFE		EPA Calculated Configuration GHG Production Units	New Data Element
11/00/00/	o	CA-188	EPA Calculated Baseline Subconfiguration City GHG	
11/23/2010	CAFE		value 1 decimal	New Data Element
11/00/0012	045 ⁴	CA-189	EPA Calculated Baseline Subconfiguration Highway	
11/23/2010	CAFE		GHG Value 1 decimal	New Data Element
11/00/0012	045 ⁴	CA-190	EPA Calculated Final Subconfiguration City GHG Value	
11/23/2010	CAFE		1 decimai	New Data Element
11/00/0010	o v c é	CA-191	EPA Calculated Final Subconfiguration Highway GHG	Nuclear States
11/23/2010	CAFE		value 1 decimal	New Data Element
11/00/00/-	o	CA-192		
11/23/2010	CAFÉ		EPA Calculated Subconfiguration GHG Production Units	New Data Element
	/	CA-193	Manufacturer Subconfiguration Final Model Year GHG	
11/23/2010	CAFÉ		Production Units	New Data Element
				Total New CAFE DE's: n=66
Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010	CAFE	CA-3	Process Code	Edit to DE Feature(s)
11/23/2010	CAFE	CA-0	Manufacturer Code	Edit to DE Feature(s)

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11/23/2010	CAFÉ	CA-1	Model Year	Edit to DEVerify right-Duty Data Requirements
11/23/2010	CAFÉ	CA-4	CAFE/GHG Compliance Category	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-4.5	CAFE/GHG Final Status Indicator	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-53	EPA Calculated Official Model Year Truck CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-54	EPA Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-55	EPA Calculated Official Model Year Import Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-50	Manufacturer Calculated Official Model Year Truck CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-51	Manufacturer Calculated Official Model Year Domestic Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-52	Manufacturer Calculated Official Model Year Import Passenger Vehicle CAFE Production Units	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-59	EPA Calculated Baseline Truck CAFE Unrounded 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-60	EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-61	EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-63	EPA Calculated Baseline Truck CAFE Rounded 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-66	EPA Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-67	EPA Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-70	EPA Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-71	EPA Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-56	Manufacturer Calculated Baseline Truck CAFE Unrounded 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-57	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-58	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-62	Manufacturer Calculated Baseline Truck CAFE Rounded 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-64	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-65	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-68	Manufacturer Calculated Baseline Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-69	Manufacturer Calculated Baseline Import Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-75	EPA Calculated Final Truck CAFE Unrounded 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-76	EPA Calculated Final Domestic Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-77	EPA Calculated Final Import Passenger Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)

				Verify Light-Duty Data Requirements
11/23/2010	CAFÉ	CA-79	EPA Calculated Final Truck CAFE Rounded 1 Decimal	Edit to DE Name & Feature(s)
		CA-82	EPA Calculated Final Domestic Passenger Vehicle CAFE	
11/23/2010	CAFÉ		Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
		CA-83	EPA Calculated Final Import Passenger Vehicle CAFE	
11/23/2010	CAFE		Unrounded Test Procedure Adjusted 4 Decimal	Edit to DE Name & Feature(s)
		CA-86		
11/23/2010	CAFÉ	CA-80	EPA Calculated Final Domestic Passenger Vehicle CAFE Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Eesture(s)
11/23/2010			Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(3)
		CA-87	EPA Calculated Einal Import Passenger Vehicle CAEE	
11/23/2010	CAFÉ		Rounded Test Procedure Adjusted 1 Decimal	Edit to DE Name & Feature(s)
		CA-72	Manufacturer Calculated Final Truck CAFE Unrounded	
11/23/2010	CAFÉ	06-12	4 Decimal	Edit to DE Name & Feature(s)
		CA-73	Manufacturer Calculated Final Domestic Passenger	
11/23/2010	CAFE		Vehicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
11/00/0010	o v s f	CA-74	Manufacturer Calculated Final Import Passenger	
11/23/2010	CAFE		Venicle CAFE Unrounded Unadjusted 4 Decimal	Edit to DE Name & Feature(s)
		CA-80	Manufacturer Calculated Final Domestic Passenger	
11/23/2010	CAFÉ	CA-80	Vehicle CAFE Rounded Test Procedure Adjusted 4	Edit to DE Name & Feature(s)
11/20/2010	ON L			
		CA-81	Manufacturer Calculated Final Import Passenger	
11/23/2010	CAFÉ		Decimal	Edit to DE Name & Feature(s)
			Manufactures Calculated Final Demostic Deserves	
		CA-84	Vehicle CAFE Rounded Test Procedure Adjusted 1	
11/23/2010	CAFÉ		Decimal	Edit to DE Name & Feature(s)
			Manufacturer Calculated Final Import Passenger	
		CA-85	Vehicle CAFE Rounded Test Procedure Adjusted 1	
11/23/2010	CAFÉ		Decimal	Edit to DE Name & Feature(s)
11/23/2010	CAFE	CA-91	EPA Official Truck CAFE Miles Per Gallon	Edit to DE Feature(s)
11/22/2010	CAFÉ	CA-92	EPA Official Domestic Passenger Vehicle CAFE Miles	
11/23/2010	CAFE			Edit to DE Featule(S)
11/23/2010	CAFÉ	CA-93	Gallon	Edit to DE Feature(s)
			Mapufacturer Calculated Official Truck CAEE Miles Per	
11/23/2010	CAFÉ	CA-88	Gallon	Edit to DE Name & Feature(s)
		CA 90	Manufacturer Calculated Official Domestic Passenger	
11/23/2010	CAFÉ	CA-69	Vehicle CAFE Miles Per Gallon	Edit to DE Name & Feature(s)
		CA-90	Manufacturer Calculated Official Import Passenger	
11/23/2010	CAFÉ		Vehicle CAFE Miles Per Gallon	Edit to DE Name & Feature(s)
11/23/2010	CAFÉ	CA-11	CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFE	CA-14.1	lest Group	Edit to DE Feature(s)
11/22/2010	CAFÉ	CA-21.5	EPA Calculated Footprint Target FE Value (miles per	Edit to DE Name & Ecoturo(c)
11/23/2010	CAFE		Banon	
11/23/2010	CAFÉ	CA-22	EPA Calculated Unrounded Reformed CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-22.3	Calculated Unrounded Reformed CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-22.7	EPA Calculated Final Reformed CAFE Standard	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-25.1	Carline Manufacturer Code	Edit to DE Feature(s)
		CA-110	EPA Calculated Baseline Configuration City FE Value 4	
11/23/2010	CAFÉ	0.110	decimal	Edit to DE name
11/23/2010	CAFÉ	CA-31	Equivalent Test Weight (ETW)	Edit to DE Feature(s)
11/23/2010	CAFÉ	CA-124	Manufacturer Code	Edit to DE Feature(s)
11/23/2010	CAFE	CA-125	Carlino Code	Edit to DE Feature(s)
11/23/2010	CAFE	CA-120		Edit to DE Feature(s)
11/23/2010		0//04	Manufacturar Cubconfiguration Final Madel V FF	
11/23/2010	CAFÉ	CA-32	Production Units	Edit to DE Feature(s)
11,20,2010	0,12			Total Edited CAFÉ DE's: n=61
Date	Dataset	Data Element	Data Element Name	Description of Change

72351601

11/23/2010 CAFE CA21 (mles per galon) (mles per gal				Manufacturor Calculated Footprint Target FE Value	Verify Light-Duty Data Requireme
11/23/2010 CAFÉ CA-21.7 EPA Calculated Footprint Target FE Discrepancy Value Deleted Data Element 11/23/2010 CAFÉ CA-119 VPA Calculated Footprint Target FE Discrepancy Value Deleted Data Element 11/23/2010 CAFÉ CA-122 VPA Calculated Final Subconfiguration Combined FE Deleted Data Element 11/23/2010 CAFÉ Data Element Deleted Data Element Deleted Data Element 11/23/2010 FE Label OL-79.2 Model Type Descriptor Ealt to DE Feature(s) 11/23/2010 FE Label OL-79.2 Charge Depleting fuel Economy Label Calculation Ealt to DE Feature(s) 11/23/2010 FE Label OL-79.2 Charge Depleting fuel Economy Label Calculation Ealt to DE Feature(s) 11/23/2010 FE Label OL-79.2 Charge Depleting fuel Economy Label Calculation Ealt to DE Feature(s) 11/23/2010 FE Label OL-79.2 Charge Depleting fuel Economy Label Calculation Ealt to DE Feature(s) 11/23/2010 FE Label OL-79.2 Fuel Second Calculation Ealt to DE Feature(s) 11/23/2010 FE Label OL-79.2 Fuel S	11/23/2010	CAFÉ	CA-21	(miles per gallon)	Deleted Data Element
CAFE CA-119 PAC actuated faseline subconfiguration Combined FI Deleted Data Element 11223/2010 CAFE CA-122 PAC actuated Final Subconfiguration Combined FI Total Deleted CAFE DE's: n-4 Date Dates Total Deleted CAFE DE's: n-4 Total Deleted CAFE DE's: n-4 Date Data Element Data Element Name Description of CAnge 11/23/2010 FE Label GL-78.2 Model Type Descriptor Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Depleting fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-79.3 Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-79.3 Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-173.3 Charge Sustaining fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-173.4 Feature(s) Edit to DE Feature(s) 11/23/2010 FE Label GL-173.4 Featoregary Edit to DE Feature(s) 11/23/2010 Read Load RL-1.4 Process Co	11/23/2010	CAFÉ	CA-21.7	EPA Calculated Footprint Target FE Discrepancy Value	Deleted Data Element
DAFÉ CA-122 PAC Actualted Final Subconfiguration Combined FE Detected Data Element Data Data Set Total Deleted CAFE DE's: r=4 Data Data Element Data Element Name Description of Change 11/23/2010 FE Label GL-78.2 Model Type Descriptor Entit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Depleting Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Depleting Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Sustaining Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Equivalent Text Weight (ETW) Edit to DE Feature(s) 11/23/2010 FE Label GL-78.3 Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.3 Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.3 Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.3 Approach Edit to	11/23/2010	CAFÉ	CA-119	EPA Calculated Baseline Subconfiguration Combined FE Value 4 decimal	Deleted Data Element
Date Data Element Data Element Name Description of Change 11/23/2010 FE Label GL-78.2 Model Type Descriptor Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Model Type Descriptor Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Depticing Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Sustaining Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-78.3 Charge Sustaining Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-130.5 Test S-Cycle Category Edit to DE Feature(s) 11/23/2010 FE Label GL-173.1 Manufacturer-Calculated Gas Guzzler Mile Per Gallon Edit to DE Feature(s) 11/23/2010 Road Load RL-1 Process Code Edit to DE Feature(s) 11/23/2010 Road Load RL-1 RL-1 Model Year Edit to DE Feature(s) 11/23/2010 Road Load RL-1 RL-1 Process Code Edit to DE Feature(s)	11/23/2010	CAFÉ	CA-122	EPA Calculated Final Subconfiguration Combined FE Value 4 decimal	Deleted Data Element
Date Data Element Data Element Anne Descriptor Edit to DE Peature(s) 11/23/2010 FE Label GL-78.2 Model Type Descriptor Edit to DE Peature(s) 11/23/2010 FE Label GL-78.2 Scycle Hybrid Fuel Economy Label Calculation Approach Edit to DE Peature(s) 11/23/2010 FE Label GL-78.2 Charge Depleting Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-79.3 Charge Sustaining Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-123 Equivalent Test Weight (ETW) Edit to DE Feature(s) 11/23/2010 FE Label GL-173.1 Manufacturer-Calculated Gas Guzzler Mile Per Galon Edit to DE Feature(s) 11/23/2010 FE Label GL-173.1 Manufacturer-Calculated Gas Guzzler Mile Per Galon Edit to DE Feature(s) 11/23/2010 Road Load RL-1 Process Code Edit to DE Feature(s) 11/23/2010 Road Load RL-15 Road Load Index Edit to DE Feature(s) 11/23/2010 Road Load RL-3 FE Label Model Type Index					Total Deleted CAFÉ DE's: n=4
11/23/2010 FE Label GL-78.2 Model Type Descriptor Edito DE Feature(s) 11/23/2010 FE Label GL-78.1 SCycle Hybrid Fuel Economy Label Calculation Approach Edito DE Feature(s) 11/23/2010 FE Label GL-78.2 Charge Depicting Fuel Economy Label Calculation Approach Edito DE Feature(s) 11/23/2010 FE Label GL-78.3 Charge Sustaining Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-13.3 Equivalent Test Weight (ETW) Edit to DE Feature(s) 11/23/2010 FE Label GL-13.5 Test Scycle Category Edit to DE Feature(s) 11/23/2010 FE Label GL-13.1 Manufacturer-Calculated Gas Guzzler Mile Per Galon Edit to DE Feature(s) 11/23/2010 FE Label Data Element Total Edited FE Label DE: re7 Date Data Cad RL-15 Road Ladad RL-16 Model Ype Index Edit to DE Feature(s) 11/23/2010 Road Laad RL-16 Model Ype Index Edit to DE Feature(s) 11/23/2010 11/23/2010 Road Laad RL-16 Model Ype Index Edit to DE Feature(s) 11/23/2010 Road Laad RL-2 FE Label Model Ype Index Edit to DE Feature(s) 11/23/2010 Road Laad RL-3 <td>Date</td> <td>Dataset</td> <td>Data Element</td> <td>Data Element Name</td> <td>Description of Change</td>	Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010 FE Label GL-79.1 \$ Cycle Hybrid Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-79.2 Charge Depleting Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-79.3 Charge Depleting Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-123 Equivalent Test Weight (ETW) Edit to DE Feature(s) 11/23/2010 FE Label GL-131.5 Test 5-Cycle Category Edit to DE Feature(s) 11/23/2010 FE Label GL-131.1 Manufacturer-Calculated Gas Guzzler Mile Per Gallon Edit to DE Feature(s) 11/23/2010 FE Label GL-131.4 Process Code Edit to DE Feature(s) 11/23/2010 Road Load RL-1.6 Model Year Edit to DE Feature(s) 11/23/2010 Road Load RL-2 FE Label Model Type Index Edit to DE Feature(s) 11/23/2010 Road Load RL-3 Fe Label Model Type Index Edit to DE Feature(s) 11/23/2010 Road Load RL-3 Fe Label Model Type Index Edit to DE Featur	11/23/2010	FE Label	GL-78.2	Model Type Descriptor	Edit to DE Feature(s)
11/23/2010 FE Label GL-79.2 Charge Depicing Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-79.3 Charge Sustaining Fuel Economy Label Calculation Approach Edit to DE Feature(s) 11/23/2010 FE Label GL-130.5 Equivalent Test Weight (ETW) Edit to DE Feature(s) 11/23/2010 FE Label GL-130.5 Test 5-Cycle Category Edit to DE Feature(s) 11/23/2010 FE Label GL-173.1 Manufracturer-Calculated Gas Guzzler Mile Per Gallon Edit to DE Feature(s) 11/23/2010 Road Load RL-1 Process Code Edit to DE Feature(s) 11/23/2010 Road Load RL-1.5 Road Load HR-1.5 Road Load HR-2 FE Label Model Year Edit to DE Feature(s) 11/23/2010 Road Load RL-2 FE Label Subconfiguration Index Edit to DE Feature(s) 11/23/2010 Road Load RL-5 Engine Code Edit to DE Feature(s) 11/23/2010 Road Load RL-4 Test Group Edit to DE Feature(s) 11/23/2010 Road Load RL-4 Test Serge Code Decoder <t< td=""><td>11/23/2010</td><td>FE Label</td><td>GL-79.1</td><td>5 Cycle Hybrid Fuel Economy Label Calculation Approach</td><td>Edit to DE Feature(s)</td></t<>	11/23/2010	FE Label	GL-79.1	5 Cycle Hybrid Fuel Economy Label Calculation Approach	Edit to DE Feature(s)
11/23/2010FE LabelGL-79.3Charge Sustaining Fuel Economy Label Calculation ApproachEdit to DE Feature(s)11/23/2010FE LabelGL-130.5Test 5-Cycle CategoryEdit to DE Feature(s)11/23/2010FE LabelGL-130.5Test 5-Cycle CategoryEdit to DE Feature(s)11/23/2010FE LabelGL-173.1Manufacturer-Calculated Gas Guzzler Mile Per GallonEdit to DE Feature(s)11/23/2010FE LabelData ElementData Element NameDescription of Charge11/23/2010Road LoadRL-1Process CodeEdit to DE Feature(s)11/23/2010Road LoadRL-1.5Road Load IPv IndexEdit to DE Feature(s)11/23/2010Road LoadRL-2FE Label Moder YearEdit to DE Feature(s)11/23/2010Road LoadRL-3FE Label Subconfiguration IndexEdit to DE Feature(s)11/23/2010Road LoadRL-4Test GroupEdit to DE Feature(s)11/23/2010Road LoadRL-5Engine Code (s)Edit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code(s)Edit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code(s)Edit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code Code DecoderEdit to DE Feature(s)11/23/2010Road LoadRL-14Transmission as listed in the FE GuideEdit to DE Feature(s)11/23/2010Road LoadRL-16Im-Market PreseEdit to DE Feature(s)11/23/2010Road Load	11/23/2010	FE Label	GL-79.2	Charge Depleting Fuel Economy Label Calculation Approach	Edit to DE Feature(s)
11/23/2010 FE Label GL-123 Equivalent Test Weight (ETW) Edit to DE Feature(s) 11/23/2010 FE Label GL-130.5 Test 5-cycle Category Edit to DE Feature(s) 11/23/2010 FE Label GL-173.1 Manufacturer-Calculated Gas Guzzler Mile Per Gallon Edit to DE Feature(s) Total Edited FE Label DE's: n=7 Total Edited FE Label DE's: n=7 Date Dataset Data Element Dataset Description of Change 11/23/2010 Road Load RL-1.5 Road Load Index Edit to DE Feature(s) 11/23/2010 Road Load RL-1.6 Model Year Edit to DE Feature(s) 11/23/2010 Road Load RL-2 FE Label Subconfiguration Index Edit to DE Feature(s) 11/23/2010 Road Load RL-4 Test Group Edit to DE Feature(s) 11/23/2010 Road Load RL-5 Engine Code Edit to DE Feature(s) 11/23/2010 Road Load RL-6 In-Use Engine Code Decoder Edit to DE Feature(s) 11/23/2010 Road Load RL-6 In-Use Engine Code Decoder Edit to DE Feature(s) 11/23/2010 R	11/23/2010	FE Label	GL-79.3	Charge Sustaining Fuel Economy Label Calculation Approach	Edit to DE Feature(s)
11/23/2010 FE Label GL-130.5 Test 5-Cycle Category Edit to DE Feature(s) 11/23/2010 FE Label GL-173.1 Manufacturer-Calculated Gas Guzzler Mile Per Gallon Edit to DE Feature(s) Date Dataset Data Element Data Element Name Description of Change 11/23/2010 Road Load RL-1 Process Code Edit to DE Feature(s) 11/23/2010 Road Load RL-1.5 Road Ioal Index Edit to DE Feature(s) 11/23/2010 Road Load RL-1.6 Model Year Edit to DE Feature(s) 11/23/2010 Road Load RL-2 FE Label Model Type Index Edit to DE Feature(s) 11/23/2010 Road Load RL-3 FE Label Subconfiguration Index Edit to DE Feature(s) 11/23/2010 Road Load RL-4 Test Group Edit to DE Feature(s) 11/23/2010 Road Load RL-5 Engine Code(s) Edit to DE Feature(s) 11/23/2010 Road Load RL-6 In-Vase Engine Code(s) Edit to DE Feature(s) 11/23/2010 Road Load RL-7 Displacement	11/23/2010	FE Label	GL-123	Equivalent Test Weight (ETW)	Edit to DE Feature(s)
III/23/2010 FE Label GL-173.1 Manufacturer-Calculated Gas Guzzler Mile Per Galion Edit to DE Feature(s) Date Data set Data Element Data Element Name Description of Change 11/23/2010 Road Load RL-1 Process Code Edit to DE Feature(s) 11/23/2010 Road Load RL-1.6 Model Year Edit to DE Feature(s) 11/23/2010 Road Load RL-2 FE Label Model Type Index Edit to DE Feature(s) 11/23/2010 Road Load RL-2 FE Label Model Type Index Edit to DE Feature(s) 11/23/2010 Road Load RL-3 FE Label Subconfiguration Index Edit to DE Feature(s) 11/23/2010 Road Load RL-4 Test Group Edit to DE Feature(s) 11/23/2010 Road Load RL-5 Engine Code Edit to DE Feature(s) 11/23/2010 Road Load RL-6 In-Use Engine Code Decoder Edit to DE Feature(s) 11/23/2010 Road Load RL-16 Inramsision as listed in the FE Guide Edit to DE Feature(s) 11/23/2010 Road Load RL-16 <td< td=""><td>11/23/2010</td><td>FE Label</td><td>GL-130.5</td><td>Test 5-Cycle Category</td><td>Edit to DE Feature(s)</td></td<>	11/23/2010	FE Label	GL-130.5	Test 5-Cycle Category	Edit to DE Feature(s)
DateData elementData Element NameDescription of Change11/23/2010Road LoadRL-1Process CodeEdit to DE Feature(s)11/23/2010Road LoadRL-1.5Road Load IndexEdit to DE Feature(s)11/23/2010Road LoadRL-1.6Model YearEdit to DE Feature(s)11/23/2010Road LoadRL-2FE Label Model Type IndexEdit to DE Feature(s)11/23/2010Road LoadRL-2FE Label Model Type IndexEdit to DE Feature(s)11/23/2010Road LoadRL-3FE Label Subconfiguration IndexEdit to DE Feature(s)11/23/2010Road LoadRL-4Test GroupEdit to DE Feature(s)11/23/2010Road LoadRL-5Engine CodeEdit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code DecoderEdit to DE Feature(s)11/23/2010Road LoadRL-7DisplacementEdit to DE Feature(s)11/23/2010Road LoadRL-14Transmission as listed in the FE GuideEdit to DE Feature(s)11/23/2010Road LoadRL-15Ake RatioEdit to DE Feature(s)11/23/2010Road LoadRL-17Tire TypeEdit to DE Feature(s)11/23/2010Road LoadRL-18Riman dire sizeEdit to DE Feature(s)11/23/2010Road LoadRL-17Tire TypeEdit to DE Feature(s)11/23/2010Road LoadRL-18Riman dire sizeEdit to DE Feature(s)11/23/2010Road LoadRL-18Riman dire sizeEdit t	11/23/2010	FE Label	GL-173.1	Manufacturer-Calculated Gas Guzzler Mile Per Gallon	Edit to DE Feature(s)
DateData SetData ElementData Element NameDescription of Change11/23/2010Road LoadRL-1Process CodeEdit to DE Feature(s)11/23/2010Road LoadRL-1.5Road Load IndexEdit to DE Feature(s)11/23/2010Road LoadRL-1.6Model YearEdit to DE Feature(s)11/23/2010Road LoadRL-2FE Label Model Type IndexEdit to DE Feature(s)11/23/2010Road LoadRL-3FE Label Subconfiguration IndexEdit to DE Feature(s)11/23/2010Road LoadRL-4Test GroupEdit to DE Feature(s)11/23/2010Road LoadRL-5Engine CodeEdit to DE Feature(s)11/23/2010Road LoadRL-5.1Equivalent Engine Code(s)Edit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code DecoderEdit to DE Feature(s)11/23/2010Road LoadRL-7DisplacementEdit to DE Feature(s)11/23/2010Road LoadRL-15Ade RatioEdit to DE Feature(s)11/23/2010Road LoadRL-16Rim and tire sizeEdit to DE Feature(s)11/23/2010Road LoadRL-17Tire TypeEdit to DE Feature(s)11/23/2010Road LoadRL-18Tire ManufacturerEdit to DE Feature(s)11/23/2010Road LoadRL-19N/V RatioEdit to DE Feature(s)11/23/2010Road LoadRL-21EffEdit to DE Feature(s)11/23/2010Road LoadRL-21EffEdit to DE Feature(s) <td></td> <td></td> <td></td> <td></td> <td>Total Edited FE Label DE's: n=7</td>					Total Edited FE Label DE's: n=7
11/23/2010Road LoadRL-1.Process CodeEdit to DE Feature(s)11/23/2010Road LoadRL-1.6Model VearEdit to DE Feature(s)11/23/2010Road LoadRL-1.6Model VearEdit to DE Feature(s)11/23/2010Road LoadRL-2FE Label Model Type IndexEdit to DE Feature(s)11/23/2010Road LoadRL-3FE Label Subconfiguration IndexEdit to DE Feature(s)11/23/2010Road LoadRL-4Test GroupEdit to DE Feature(s)11/23/2010Road LoadRL-5Engine CodeEdit to DE Feature(s)11/23/2010Road LoadRL-51Equivalent Engine Code(s)Edit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code DecoderEdit to DE Feature(s)11/23/2010Road LoadRL-14Transmission as listed in the FE GuideEdit to DE Feature(s)11/23/2010Road LoadRL-14Transmission as listed in the FE GuideEdit to DE Feature(s)11/23/2010Road LoadRL-16Rim and tire sizeEdit to DE Feature(s)11/23/2010Road LoadRL-17Tire TypeEdit to DE Feature(s)11/23/2010Road LoadRL-18Tire ManufacturerEdit to DE Feature(s)11/23/2010Road LoadRL-18Tire ManufacturerEdit to DE Feature(s)11/23/2010Road LoadRL-14Target Coefficient A (FO) (Ibf)Edit to DE Feature(s)11/23/2010Road LoadRL-18Tire Manufacturer-Calculated Total Road Load Ho DE Feature(s)	Date	Dataset	Data Element	Data Element Name	Description of Change
11/23/2010Road LoadRL-1.5Road Load IndexEdit to DE Feature(s)11/23/2010Road LoadRL-1.6Model YearEdit to DE Feature(s)11/23/2010Road LoadRL-2FE Label Model Type IndexEdit to DE Feature(s)11/23/2010Road LoadRL-3FE Label Subconfiguration IndexEdit to DE Feature(s)11/23/2010Road LoadRL-4Test GroupEdit to DE Feature(s)11/23/2010Road LoadRL-5Engine CodeEdit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code(s)Edit to DE Feature(s)11/23/2010Road LoadRL-6In-Use Engine Code DecoderEdit to DE Feature(s)11/23/2010Road LoadRL-7DisplacementEdit to DE Feature(s)11/23/2010Road LoadRL-14Transmission as listed in the FE GuideEdit to DE Feature(s)11/23/2010Road LoadRL-16Rim and tire sizeEdit to DE Feature(s)11/23/2010Road LoadRL-17Tire TypeEdit to DE Feature(s)11/23/2010Road LoadRL-18Tire ManufacturerEdit to DE Feature(s)11/23/2010Road LoadRL-18Tire ManufacturerEdit to DE Feature(s)11/23/2010Road LoadRL-20Curb WeightEdit to DE Feature(s)11/23/2010Road LoadRL-21ETWEdit to DE Feature(s)11/23/2010Road LoadRL-21ETWEdit to DE Feature(s)11/23/2010Road LoadRL-24Target Coefficient A (Fo)	11/23/2010	Road Load	RL-1	Process Code	Edit to DE Feature(s)
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